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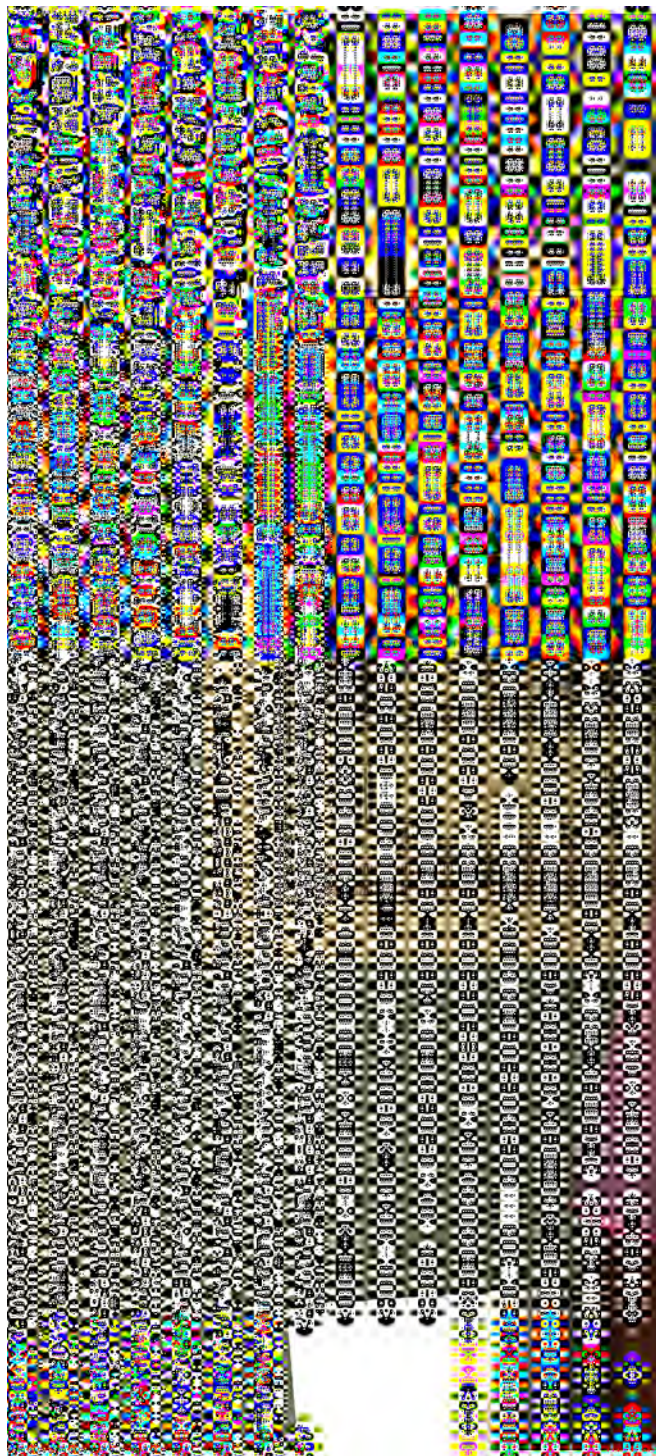
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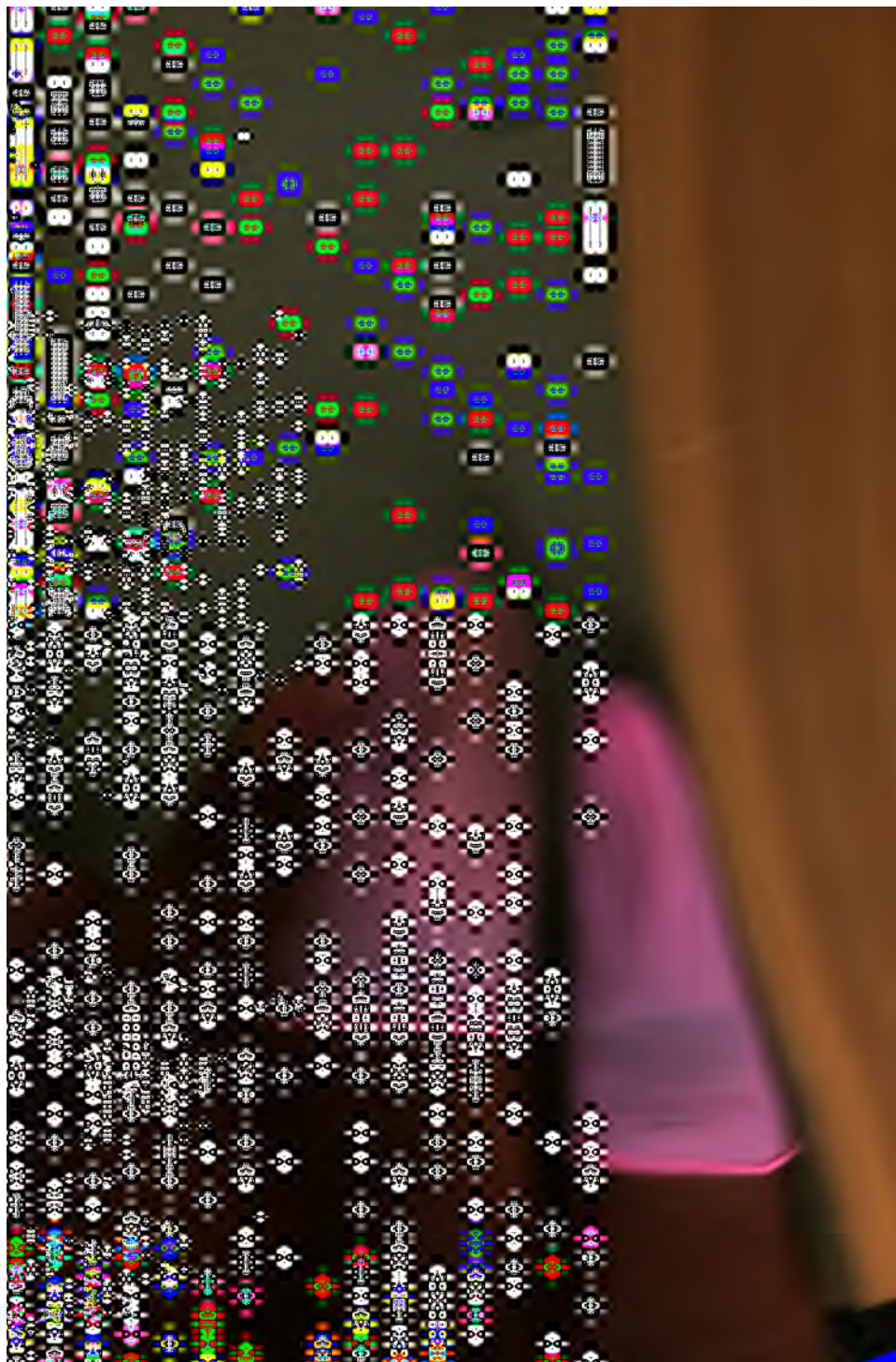
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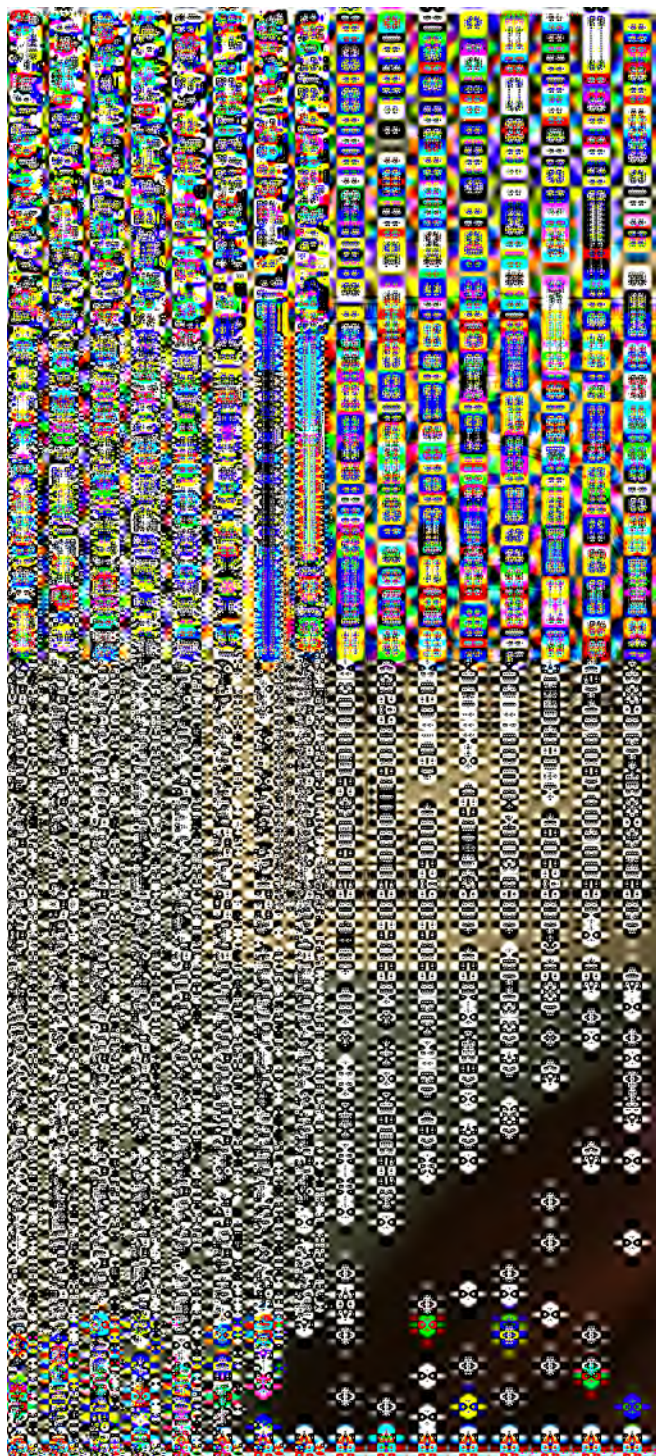
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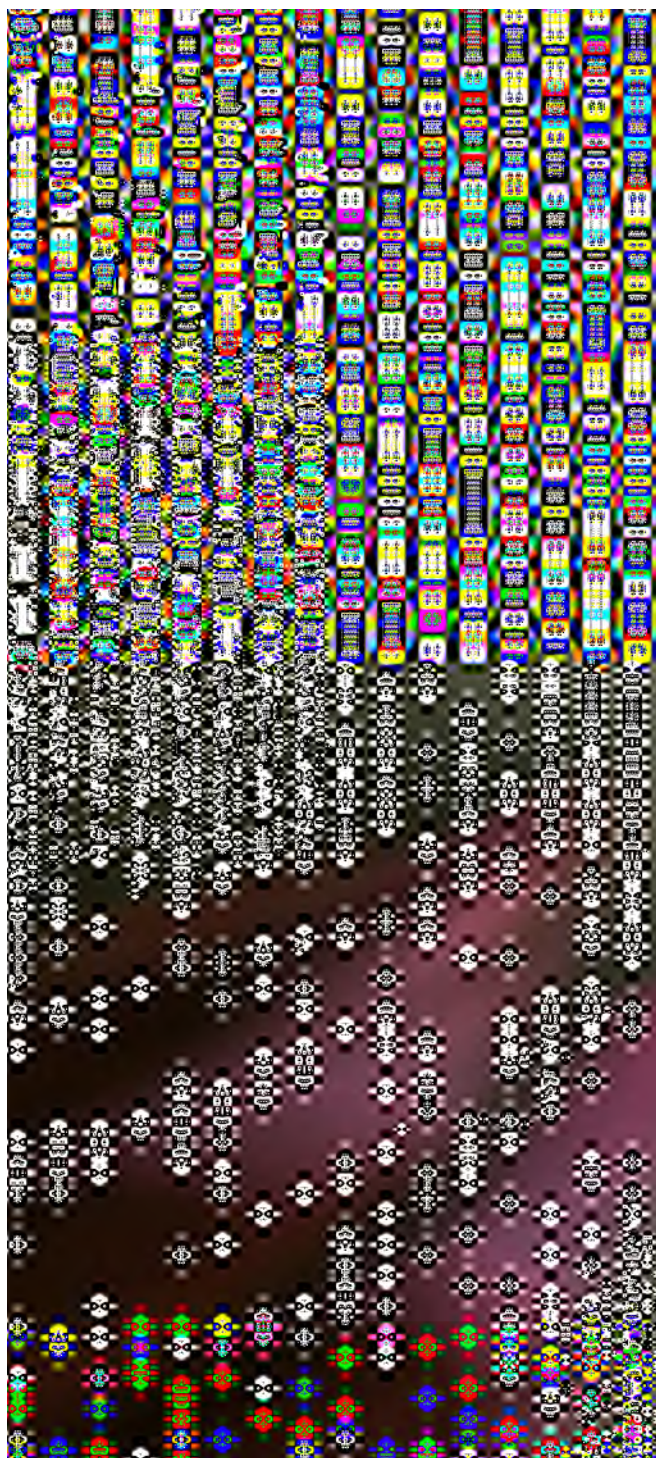
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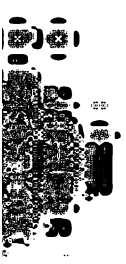




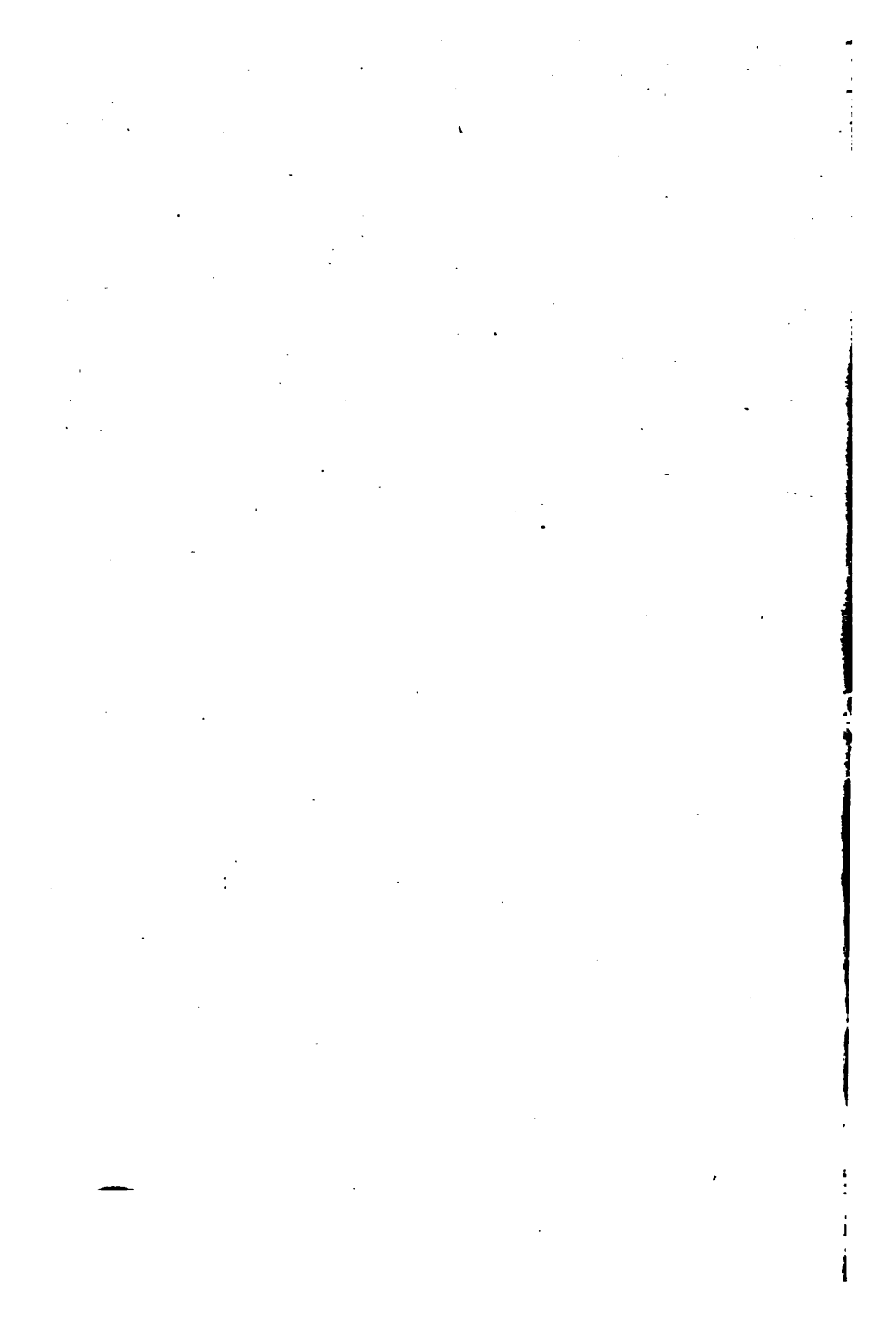




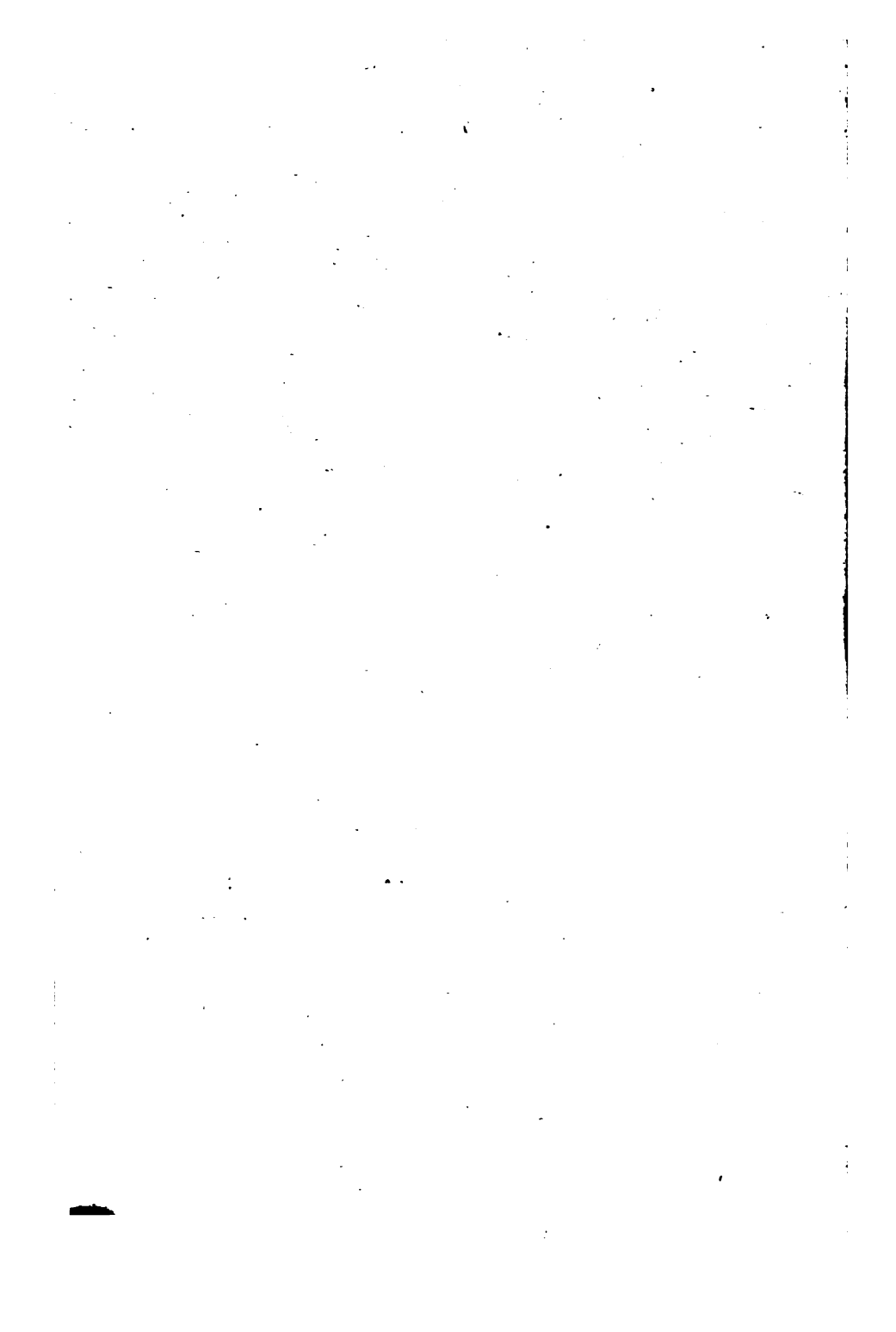
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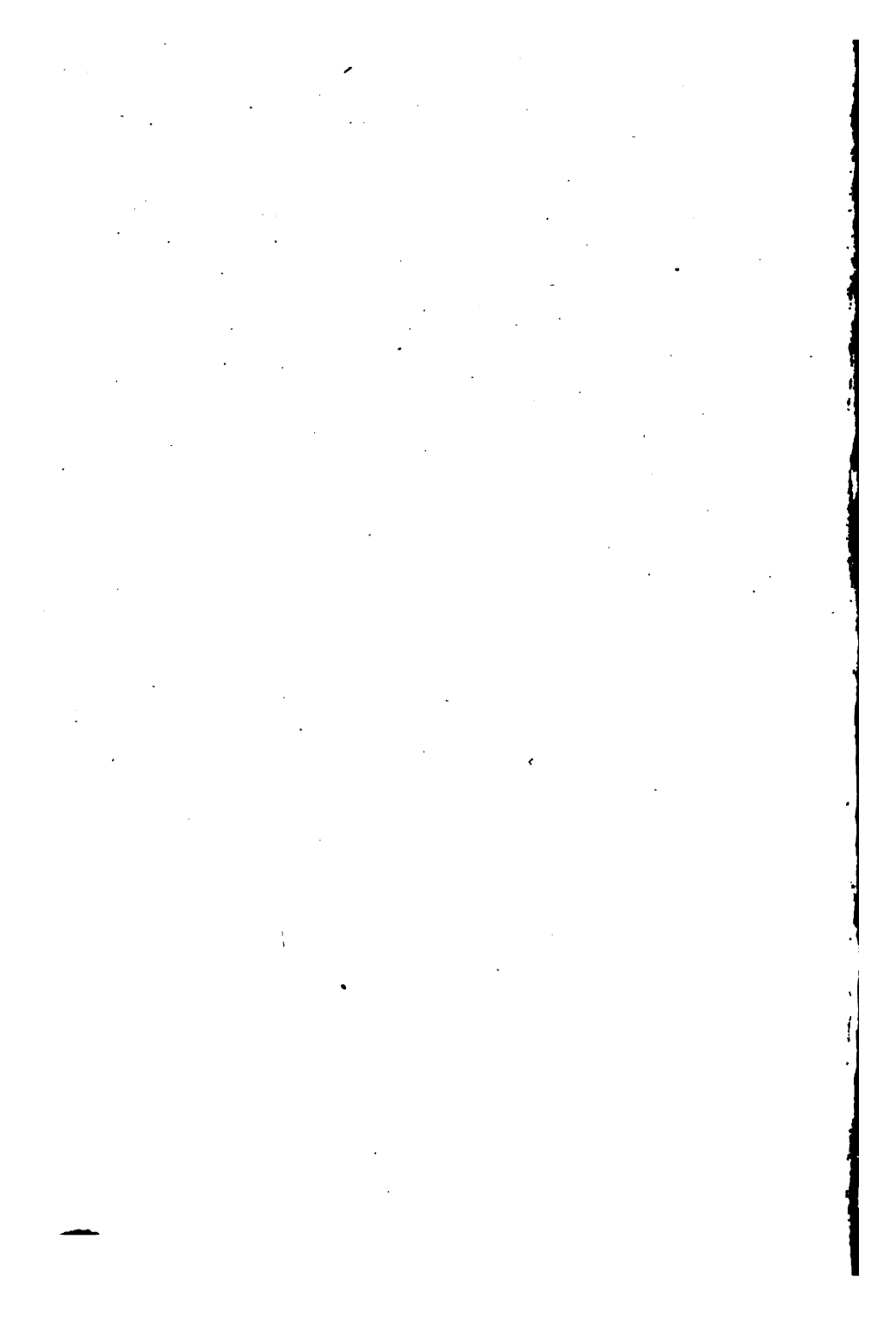
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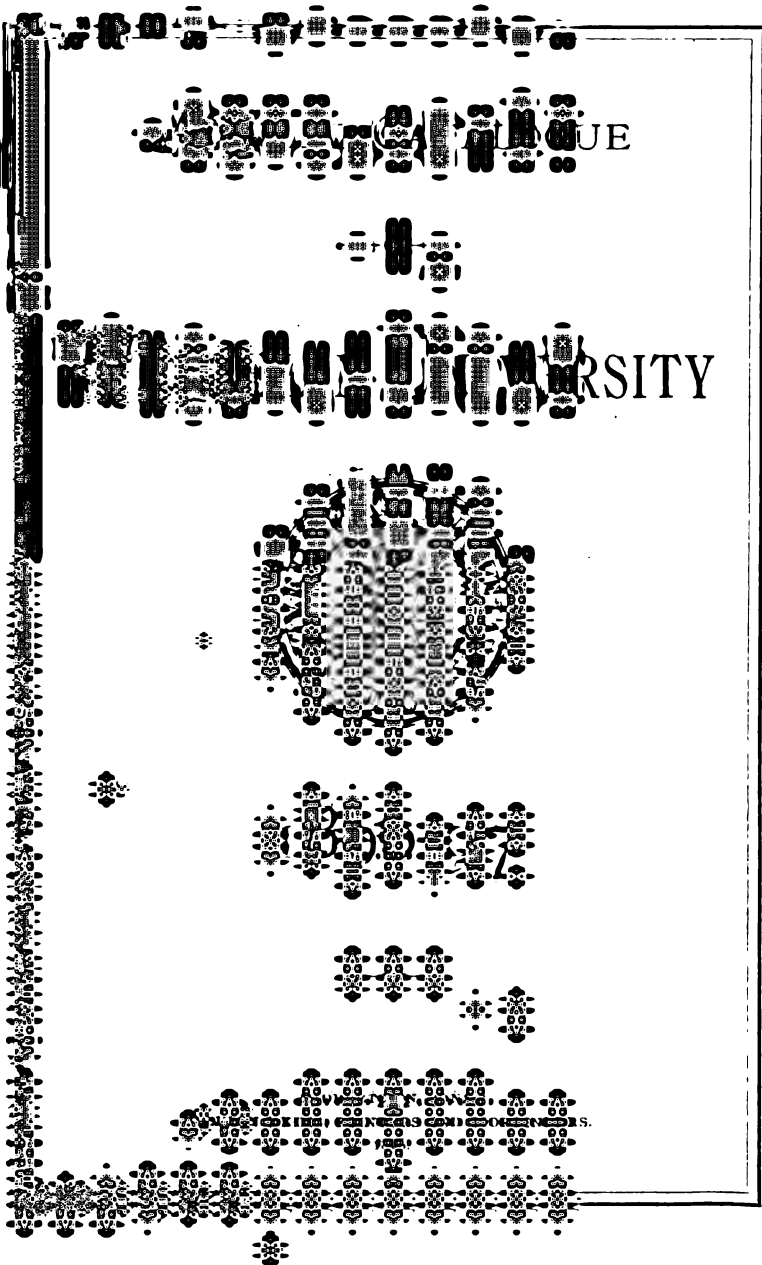












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Eugene Wyllys Burr,	<i>Montclair, N. J.</i>	<i>238 High St.</i>
§ Mortimer Hart Camp,	<i>New Britain.</i>	<i>43 N. C.</i>
Alfred Tredwell Davison,	<i>Brooklyn, N. Y.</i>	<i>A. Δ. Φ. House.</i>
§ Frank Everett Eastman,	<i>Stafford Springs.</i>	<i>X. Ψ. Lodge.</i>
John Howard Fairchild,	<i>Middletown.</i>	<i>24 Grand St.</i>
§ Edmund Wilson Frain,	<i>Williamsport, Pa.</i>	<i>250 High St.</i>
Margaret Wilber Gaines,	<i>Hawley, Pa.</i>	<i>178 Church St.</i>
§ Florence Mabel Gamache,	<i>Shrewsbury, Mass.</i>	<i>274 High St.</i>
George Gilmour,	<i>Philadelphia, Pa.</i>	<i>45 N. C.</i>
† Carle Augustus Graves,	<i>New Britain.</i>	<i>B. Θ. Π. House.</i>
§ Arthur Olin Griggs,	<i>Westford.</i>	<i>Φ. P. House.</i>
Hattie Bernice Hall,	<i>Springfield, Mass.</i>	<i>311 High St.</i>
† Jesse Ralph Harris,	<i>Buffalo, N. Y.</i>	<i>29 N. C.</i>
Harold Hastings,	<i>Ubel, Mont.</i>	<i>Δ. K. E. House.</i>
† Philip Bovier Hawk,	<i>East Branch, N. Y.</i>	<i>Δ. K. E. House.</i>
Herbert Hazzard,	<i>Kingston, N. Y.</i>	<i>15 N. C.</i>
§ John Robertson Henry,	<i>St. John, N. B.</i>	<i>B. Θ. Π. House.</i>
Warren Lanning Hoagland, Jr.,	<i>Passaic, N. J.</i>	<i>238 High St.</i>
§ De Witt Hubbell,	<i>Buffalo, N. Y.</i>	<i>A. Δ. Φ. House.</i>
§ Eben Jackson,	<i>Middletown.</i>	<i>376 Washington St.</i>
† Frederick Atkins Johnston,	<i>New Brighton, N. Y.</i>	<i>53 N. C.</i>
Robert Tolles Jones,	<i>Brooklyn, N. Y.</i>	<i>Ψ. T. House.</i>
Chester Chaffee Kent,	<i>Meriden.</i>	<i>Δ. K. E. House.</i>
George Bush MacComber,	<i>Watertown, N. Y.</i>	<i>Ψ. T. House.</i>
Roberta Mason,	<i>Farmington, Mo.</i>	<i>311 High St.</i>
Harold Denman Meeker,	<i>Cincinnati, O.</i>	<i>Ψ. T. House.</i>

NAMES.	RESIDENCES.	ROOMS.
§ Edward Laird Mills,	<i>Boseman, Mont.</i>	Φ. P. House.
§ Robert Denniston Milner,	<i>Winnipauk.</i>	Δ. K. E. House.
† Edward Louis Montgomery,	<i>South Manchester.</i>	A. Δ. Φ. House.
Samuel Alfred Moyle,	<i>Derby.</i>	38 N. C.
§ Eleanor Newell,	<i>Hartford.</i>	174 Church St.
Adolphus Stewart North,	<i>New York, N. Y.</i>	19 O. H.
§ Mary Northrop,	<i>Middletown.</i>	174 Church St.
George Leroy Noyes,	<i>Lisbon, N. H.</i>	Υ. Y. House.
Hannah Pembroke O'Flaherty,	<i>Hartford.</i>	274 High St.
Patrick Francis O'Neill,	<i>Wilkes-Barre, Pa.</i>	296 William St.
§ George Wilbur Osmun,	<i>Danbury.</i>	Υ. Y. House.
Robert Edward Platt,	<i>Waterbury.</i>	B. Θ. Π. House.
§ Susie Hadley Potter,	<i>Somerville, Mass.</i>	274 High St.
Arthur Wellington Price,	<i>Dresden Mills, Me.</i>	Φ. P. House.
Samuel Quickmire,	<i>Middletown.</i>	15 Cross St.
Walter Bright Rile,	<i>Wilmington, Del.</i>	B. Θ. Π. House.
George Douglas Robins,	<i>Dover, N. H.</i>	250 High St.
† Zula Elizabeth Rogers,	<i>Meriden.</i>	274 High St.
Benjamin Ernest Sibley,	<i>Rialto, Cal.</i>	238 High St.
Walter Herbert Stevens,	<i>Albany, N. Y.</i>	2 N. C.
Addie Frances Sweet,	<i>Leominster, Mass.</i>	311 High St.
§ Edward William Thompson,	<i>Waverly, N. Y.</i>	X. Υ. Lodge.
Freeman Augustus Tower,	<i>Sterling Junction, Mass.</i>	238 High St.
§ Gilbert Haven Trafton,	<i>Chebeague, Me.</i>	Φ. P. House.
§ Isabel Maria Walbridge,	<i>Hartford.</i>	311 High St.
† Wilbur Sanford Weeks,	<i>Middletown.</i>	297 College St.
† Ralph Delano Whiting,	<i>New York, N. Y.</i>	Υ. Y. House.
† Roland Henry Williams,	<i>Remsen, N. Y.</i>	53 N. C.
† William Abbott Wyatt,	<i>Norwalk.</i>	Υ. Y. House.
Eleanor Belle Yates,	<i>New Britain.</i>	274 High St.
Archer Everett Young,	<i>New Britain.</i>	A. Δ. Φ. House.
Arthur Evelyn Young,	<i>New Britain.</i>	A. Δ. Φ. House.

SOPHOMORE CLASS.

NAMES.	RESIDENCES.	ROOMS.
Addis Bliss Albro,	<i>Bridgeport.</i>	41 N. C.
§ Marcellus Chandler Avery,	<i>Plymouth, Mass.</i>	30 N. C.
† Norris Caleb Bailey,	<i>East Berlin.</i>	<i>East Berlin.</i>
Frederick Munson Barnes,	<i>Swanton, Vt.</i>	B. O. II. House.
John Spring Bedell,	<i>Fairdale, Pa.</i>	11 N. C.
§ Joseph Beech,	<i>Elizabeth, N. J.</i>	38 N. C.
Edward Samuel Belden,	<i>Bristol.</i>	X. Y. Lodge.
§ Julia Gertrude Bevin,	<i>East Hampton.</i>	274 High St.
Arthur Grant Boynton,	<i>Copenhagen, N. Y.</i>	B. O. II. House.
§ Julia Brazos,	<i>Middletown.</i>	136 High St.
Monroe Buckley,	<i>Morristown, N. J.</i>	64 Church St.
§ Arthur Harold Burdick,	<i>Elmira, N. Y.</i>	Δ. K. E. House.
Herbert Viets Camp,	<i>New Britain.</i>	43 N. C.
Horace Westlake Coons,	<i>Peekskill, N. Y.</i>	X. Y. Lodge.
William Clarence Darby,	<i>Hoosick Falls, N. Y.</i>	Δ. K. E. House.
Harry Davenport,	<i>Bridgeport.</i>	58 Wyllys Ave.
§ Herbert Spencer Davis,	<i>Torrington.</i>	58 Wyllys Ave.
§ Milton Howard Dawley,	<i>Holyoke, Mass.</i>	B. O. II. House.
§ Bertram Frederic Dodd,	<i>Middletown.</i>	<i>Burr Ave.</i>
Frederick Lincoln Flinchbaugh,	<i>York, Pa.</i>	16 O. H.
Charlotte Benson Frost,	<i>Middletown.</i>	299 College St.
Charles Gustavus Girelius,	<i>Vineland, N. J.</i>	X. Y. Lodge.
§ Arthur Frederick Goodrich,	<i>New Britain.</i>	Δ. K. E. House.
† James Gardner Goodwin,	<i>Bristol.</i>	X. Y. Lodge.
§ John Bengough Griffiths,	<i>Jermyn, Pa.</i>	8 N. C.
Charles Arthur Hadley,	<i>Black River, N. Y.</i>	<i>Gymnasium.</i>
Robert Ellsworth Harned,	<i>Norwich.</i>	37 N. C.
§ Isabella Sinclair Hill,	<i>Middletown.</i>	246 High St.
Perry Childs Hill,	<i>Newport, R. I.</i>	250 High St.
† William Atwood Hilton,	<i>Waverly, N. Y.</i>	X. Y. Lodge.
§ William Brainard Hinkley,	<i>Concord, N. H.</i>	B. O. II. House.
† Fred Wooding Hutchinson,	<i>Bristol.</i>	X. Y. Lodge.

NAMES.	RESIDENCES.	ROOMS.
§ Margaret Elizabeth Jones,	<i>Middletown.</i>	<i>8 Huber Ave.</i>
Edwin Walter Kemmerer,	<i>Factoryville, Pa.</i>	<i>13 N. C.</i>
Albert Ernest Legg,	<i>Mapleville, R. I.</i>	<i>Δ. K. E. House.</i>
William Henry Leslie,	<i>Portsmouth, N. H.</i>	<i>12 N. C.</i>
Charles Merton Lewis,	<i>Willsboro, N. Y.</i>	<i>Φ. P. House.</i>
§ Winifred May Lewis,	<i>Haddam.</i>	<i>276 College St.</i>
William Henry Littebrandt,	<i>Yonkers, N. Y.</i>	<i>16 O. H.</i>
Myron John McKowen,	<i>East Machias, Me.</i>	<i>6 N. C.</i>
Wilbur Reed Mattoon,	<i>Van Etten, N. Y.</i>	<i>18 N. C.</i>
† William Jay Merwin,	<i>Pawling, N. Y.</i>	<i>238 High St.</i>
§ Jessie Miller,	<i>Scranton, Pa.</i>	<i>274 High St.</i>
§ Olin Frederick Parent,	<i>Bondsville, Mass.</i>	<i>X. Ψ. Lodge.</i>
† William Eldridge Parker,	<i>Torrington.</i>	<i>X. Ψ. Lodge.</i>
Alice Lucas Paterson,	<i>Middletown.</i>	<i>110 Main St.</i>
§ Ralph Stevens Pendexter,	<i>Meriden.</i>	<i>17 N. C.</i>
Ward Wilson Pickard,	<i>Cleveland, O.</i>	<i>44 N. C.</i>
† Joseph Cooke Pullman,	<i>Bridgeport.</i>	<i>44 N. C.</i>
Florence Evelyn Quickmire,	<i>Middletown.</i>	<i>17 Cross St.</i>
Ernest Martin Quittmeyer,	<i>Bridgeport.</i>	<i>19 N. C.</i>
Charles Harlow Raymond,	<i>Lawrenceville, N. J.</i>	<i>37 N. C.</i>
§ Emma Louisa Reed,	<i>Rondout, N. Y.</i>	<i>311 High St.</i>
Alfred Eugene Roberts,	<i>Wethersfield.</i>	<i>238 High St.</i>
Charles Francis Rockwell,	<i>Meriden.</i>	<i>27 N. C.</i>
§ Nathan Lounsbury Rockwell, Jr.,	<i>South Norwalk.</i>	<i>Δ. K. E. House.</i>
† Burton Cephas Rogers,	<i>Meriden.</i>	<i>250 High St.</i>
§ Frank Augustus Sargent,	<i>Bangor, Me.</i>	<i>25 N. C.</i>
Frank Forester Simonton,	<i>Winterport, Me.</i>	<i>16 N. C.</i>
§ Clarence Robertson Smith,	<i>Albany, N. Y.</i>	<i>248 High St.</i>
§ Mae Deering Smith,	<i>Montpelier, Vt.</i>	<i>274 High St.</i>
Charles Hopkins Spencer,	<i>Philadelphia, Pa.</i>	<i>88 Wylllys Ave.</i>
Edward Mitchell Spencer,	<i>Philadelphia, Pa.</i>	<i>88 Wylllys Ave.</i>
§ Harry Russel Stone,	<i>Middletown.</i>	<i>96 William St.</i>
Ralph Cleaves Stone,	<i>Gorham, Me.</i>	<i>19 N. C.</i>
John Edgar Tackaberry,	<i>New York, N. Y.</i>	<i>248 High St.</i>
§ John Curtis Tennant,	<i>Wilkes-Barre, Pa.</i>	<i>X. Ψ. Lodge.</i>
Elizabeth Thompson,	<i>Pittston, Pa.</i>	<i>178 Church St.</i>
§ John Milton Townsend,	<i>Camden, N. J.</i>	<i>A. Δ. Φ. House.</i>
John Armstrong Wade,	<i>Brooklyn, N. Y.</i>	<i>B. O. Π. House.</i>

NAMES.	RESIDENCES.	ROOMS.
† Courtney Maujer Weaver,	<i>Brooklyn, N. Y.</i>	<i>317 William St.</i>
Le Roy Weller,	<i>Saltspringville, N. Y.</i>	<i>Gymnasium.</i>
Helen Elizabeth Westgate,	<i>Middletown.</i>	<i>178 Church St.</i>
§ Mary Emma Wilcoxson,	<i>Stratford.</i>	<i>311 High St.</i>
§ Mary Emma Williams,	<i>Binghamton, N. Y.</i>	<i>274 High St.</i>
Willard Warren Wilsey,	<i>Middletown.</i>	<i>174 College St.</i>
Newton Grant Wright,	<i>Middletown.</i>	<i>Φ. P. House.</i>
Oliver Elizur Yale,	<i>Meriden.</i>	<i>A. Δ. Φ. House.</i>
Walter Dudley Yates,	<i>Rockville.</i>	<i>30 N. C.</i>

FRESHMAN CLASS.

NAMES.	RESIDENCES.	ROOMS.
Levi Delano Adams,	<i>Duke Center, Pa.</i>	<i>256 High St.</i>
§ Curtiss Stowe Bacon,	<i>Middletown.</i>	<i>433 Main St.</i>
Harvey Lee Bagenstose,	<i>Mahanoy City, Pa.</i>	<i>64 N. C.</i>
Harry Torsey Baker,	<i>Rockland, Me.</i>	<i>Φ. P. House.</i>
Frank Asa Berry,	<i>Danbury.</i>	<i>55 N. C.</i>
Charles Billington,	<i>New Bedford, Mass.</i>	<i>6 N. C.</i>
Dora Isabel Blackman,	<i>Middletown.</i>	<i>107 Cross St.</i>
Emil Harry Blichfeldt,	<i>Saratoga Springs, N. Y.</i>	<i>51 Wyllys Ave.</i>
† Laura Alice May Bohlmann,	<i>Falls Village.</i>	<i>311 High St.</i>
John Rockefeller Bowman,	<i>Austin, Pa.</i>	<i>64 N. C.</i>
George Hurd Bragdon,	<i>Middletown.</i>	<i>238 High St.</i>
§ Alice Brigham,	<i>Hartford</i>	<i>274 High St.</i>
Whitefield Walton Brockman,	<i>Atlanta, Ga.</i>	<i>20 N. C.</i>
Arthur Leonard Brown,	<i>Round Lake, N. Y.</i>	<i>Φ. P. House.</i>
Willard Ezra Brown,	<i>Leominster, Mass.</i>	<i>35 N. C.</i>
Burdette Ross Buckingham,	<i>Riverhead, N. Y.</i>	<i>58 N. C.</i>

NAMES.	RESIDENCES.	ROOMS.
§ John Smith Burley,	<i>Tuckahoe, N. J.</i>	4 N. C.
† Rollin Hilliard Burr,	<i>Rocky Hill.</i>	<i>Rocky Hill.</i>
Horace Durar Byrnes,	<i>Brooklyn, N. Y.</i>	55 N. C.
§ Edgerton Samuel Carey,	<i>Mt. Pleasant, Ireland.</i>	33 N. C.
§ Mae Huse Chapman,	<i>Middletown.</i>	86 College St.
Francis Robinson Clark,	<i>Strong, Me.</i>	49 N. C.
Harriet Dorrance Clary,	<i>New Britain.</i>	274 High St.
§ Christabel May Coe,	<i>Middlefield.</i>	144 Broad St.
§ Cyrus Leroy Corliss,	<i>Plymouth, N. H.</i>	Φ. P. House.
§ Elizabeth Anna Coughlin,	<i>Middletown.</i>	563 North High St.
§ Gracia Darrow,	<i>West Eaton, N. Y.</i>	250 High St.
† Ashton Weymouth Davis,	<i>Hackettstown, N. J.</i>	59 N. C.
Charles Harrison Davis,	<i>Lynn, Mass.</i>	31 College Place.
Henry Loranus Davis,	<i>Lynn, Mass.</i>	31 College Place.
Gaylord William Douglass,	<i>Concord, N. H.</i>	35 N. C.
Archie Wright Dunham,	<i>Nichols, N. Y.</i>	8 N. C.
§ Elliott Minton Eldredge,	<i>Brooklyn, N. Y.</i>	250 High St.
Charles Alton Ellis,	<i>Guilford, Me.</i>	16 N. C.
Leroy Connell Floyd,	<i>Binghamton, N. Y.</i>	50 N. C.
§ Grace Leona Foote,	<i>Middletown.</i>	22 College Pl.
† David Austin Fox, Jr.,	<i>Clinton.</i>	248 High St.
Philip Eugene Garrison,	<i>Cranbury, N. J.</i>	51 N. C.
Duncan McPherson Genns,	<i>Woodhaven, N. Y.</i>	14 N. C.
† Earl Weston Gooding,	<i>Plymouth, Mass.</i>	50 N. C.
§ Rodney Alverton Griffin,	<i>Tilton, N. H.</i>	20 N. C.
Leroy Albert Howland,	<i>New Bedford, Mass.</i>	57 N. C.
§ Grace Maude Hulse,	<i>Amityville, N. Y.</i>	136 High St.
Jesse Lyman Hurlbut, Jr.,	<i>New York, N. Y.</i>	60 N. C.
§ Henry Andrews Ingraham,	<i>Brooklyn, N. Y.</i>	238 High St.
§ Charles Earl Johnston,	<i>Westmoreland, N. Y.</i>	33 N. C.
Howard Dysart Kessler,	<i>Altoona, Pa.</i>	Lawn Ave.
Joshua Bartlett Kirkpatrick,	<i>East Deering, Me.</i>	299 College St.
§ Robert Wesley Langford,	<i>Pittston, Pa.</i>	B. O. H. House.
James Melvin Lee,	<i>Plains, Pa.</i>	68 N. C.
† Charles William McMahon,	<i>Middletown.</i>	171 High St.
Robert Cecil McMahon,	<i>Middletown.</i>	171 High St.
Edward McMillen,	<i>Newton, N. J.</i>	Φ. P. House.
Walter MacNaughten,	<i>Montclair, N. J.</i>	41 N. C.

NAMES.	RESIDENCES.	ROOMS.
Howard Virgil Mattoon,	<i>Van Etten, N. Y.</i>	18 N. C.
§ Roy Cyrus Megargel,	<i>Scranton, Pa.</i>	B. Θ. Π. House.
Edgar Augustine Miller, Jr.,	<i>Philadelphia, Pa.</i>	12 N. C.
§ Robert Edwin Nivison,	<i>Dalton, Mass.</i>	61 N. C.
§ May Tomlinson Palmer,	<i>Shelton.</i>	311 High St.
Percy Allen Parsons,	<i>Boston, Mass.</i>	238 High St.
Ralph Edgar Pearce,	<i>Wilkes-Barre, Pa.</i>	256 College St.
George De Champ Peterson,	<i>Kent's Hill, Me.</i>	49 N. C.
Charles Addison Phelps,	<i>Johnstown, N. Y.</i>	2 N. C.
† Fred Henry Pillsbury,	<i>South Barton, Vt.</i>	301 College St.
§ Anna Agnes Prior,	<i>Middletown.</i>	102 Union St.
Safford Luther Putnam,	<i>Cambridge, Vt.</i>	58 Wyllys Ave.
Gordon Wesley Race,	<i>Raceville, N. Y.</i>	51 Wyllys Ave.
§ Willis Henry Reed,	<i>Stafford Springs.</i>	X. Ξ. Lodge.
Frank Harder Ryder,	<i>Cobleskill, N. Y.</i>	X. Ξ. Lodge.
§ Ralph W. Rymer,	<i>Jermyn, Pa.</i>	52 N. C.
Mary Agnes Saleski,	<i>Meriden.</i>	274 High St.
§ John Stanley Sanford,	<i>Ocean Grove, N. J.</i>	51 N. C.
§ William Forrester Satchell,	<i>Lancaster, Pa.</i>	X. Ξ. Lodge.
Catherine Mae Simonton,	<i>Winterport, Me.</i>	274 High St.
§ Arthur Bourne Smith,	<i>North Barton, N. Y.</i>	256 High St.
Burchard Hauschild Smith,	<i>Montpelier, Vt.</i>	301 College St.
§ Percie Janet Smith,	<i>Rockfall.</i>	274 High St.
Clarence Hathorne Staples,	<i>East Boston, Mass.</i>	17 N. C.
Isaac Crawford Sutton,	<i>Haverford, Pa.</i>	41 N. C.
Josiah Willard Taylor,	<i>North Wayne, Me.</i>	299 College St.
Winthrop Tirrell,	<i>New Bedford, Mass.</i>	57 N. C.
Payson Jackson Treat,	<i>New York, N. Y.</i>	60 N. C.
§ Jane Frances Walsh,	<i>Middletown.</i>	160 Lincoln St.
David T. Weidner,	<i>Birdsboro, Pa.</i>	14 N. C.
Emory Hammond Westlake,	<i>Dallas, Pa.</i>	52 N. C.
§ Daniel Denison Whedon,	<i>Ridgefield.</i>	X. Ξ. Lodge.
Walter Browne Wilson,	<i>Freeport, N. Y.</i>	59 N. C.
Frank Everett Wing,	<i>Waterville, Me.</i>	54 N. C.
John Edwin Wing,	<i>Waterville, Me.</i>	54 N. C.
§ Josiah Oliver Wolcott,	<i>Dover, Del.</i>	B. Θ. Π. House.

GENERAL STATEMENT.

COURSES OF STUDY.—The College presents to its undergraduate students the option of three parallel courses of study, each extending through four years, named respectively the Classical Course, the Latin-Scientific Course, and the Scientific Course.

In the Classical Course, the study of Latin and Greek forms a large part of the required work of the first year, and must be continued during the second year unless the student elects a very considerable proportion of his studies from the departments of mathematics and physics. In the Latin-Scientific Course, Greek is omitted, and, in the Scientific Course, both Greek and Latin are omitted, in order to give more extended opportunity for the study of modern languages, science, and literature.

REQUIRED AND ELECTIVE STUDIES.—In each of the foregoing courses, nearly all the studies of the first year are required. In the three remaining years, the amount of required work is progressively diminished, the student being allowed to complete his quota by selecting from a wide range of elective studies. He is expected, however, to regulate his choice so that his electives will together form an harmonious and symmetrical course of study; and in no case is a student allowed to select a study which he is not, in the judgment of his instructors, qualified to pursue with advantage.

SPECIAL COURSES.—Students who do not desire to complete any one of the foregoing courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood that this provision is intended for the benefit, not of

those students who are incompetent to take one of the regular courses, but of those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended courses of study in particular departments. Such special students will be expected to attend all exercises assigned them, and will be subject to all the general rules of the College.

GRADUATE STUDIES.—Extended instruction is given to those who wish to pursue graduate courses of study in any of the departments. Further information concerning such graduate courses is given in the reports of the several departments on Courses of Instruction, and also in connection with the statement of conditions for the degrees of Master of Arts and Master of Science.



TERMS OF ADMISSION.*

CLASSICAL COURSE.

Candidates for admission to the Classical Course are examined in the following books and subjects:—

- LATIN.—1. Latin grammar, including prosody.
2. Cæsar,—Gallic War, books I.–IV.
3. Cicero,—the four orations against Catiline, and those for Archias and for the Manilian Law.
4. Vergil,—Eclogues, and Æneid, books I.–VI.
5. Translation at sight into English of passages of Latin, both prose and poetry, of average difficulty.
6. Translation into Latin of simple English sentences and of easy narrative passages based on the prose authors read.

With the passages set under headings 5 and 6, a vocabulary of the less common words is supplied.

In place of the requirements specified under headings 2, 3, and 4, equivalent readings will be accepted, but, in general, prose will not be accepted instead of poetry, nor *vice versa*.

The Roman system of pronunciation is exclusively used in all the Latin work of the college course, and it is expected that applicants for admission will be well versed in it. A brief scheme of approximately equivalent sounds in English is here given: *a* is pronounced as in *father*, *e* as in *they*, *i* as in *machine*, *o* as in *tone*, *u* as *oo* in *boot* (the long and short vowels have the same quality of sound, but the latter are pronounced in less time than the former); *æ* as *ay*, *au* as *ou* in *out*, *ei* as in *eight*, *eu* as in *feud*, *oe* as *oi* in *boil*, *ui* as in *quit*; *c* and *g* always as in *come* and *get*, *s* always as in *sin*, *j* as *i* in *valiant*, *v* as *w* in *wit*, *y* as French *u* or German *ü*, *x* as *ks*, *z* as *ds*, *r* always trilled, *ch*, *ph*, and *th* as *c*, *p*, and *t* with the aspiration following, as in *hack-hire*, *haphazard*, *boat-hook*; other consonants as in English.

It is urged that candidates be well drilled in the observance of the laws of quantity in oral reading, especially in Vergil and Ovid.

* For announcement of prize for excellence in the studies preparatory to admission, see "Ayres Prize."

GREEK.—I. Greek grammar,—Hadley-Allen's, or Goodwin's.

2. Xenophon,—Anabasis, books I.—IV.

3. Homer,—Iliad, books I.—III.

4. Translation at sight of one or more passages from Xenophon.

5. Translation into Greek of easy narrative passages based on the required books of the Anabasis.

HISTORY AND GEOGRAPHY.—I. History of Rome to the death of Marcus Aurelius.

2. History of Greece to the capture of Corinth, 146 B. C.

3. Ancient geography.

The following books are recommended as the basis of instruction in history and geography:—

1. Allen's Short History of the Roman People (Part II. of Myers and Allen's Ancient History), pp. 1-275.

2. Myers' Eastern Nations and Greece (Part I. of Myers' and of Myers and Allen's Ancient History), beginning with Section II.

3. Tozer's Primer of Ancient Geography.

Familiarity with map drawing is also especially desirable.

MATHEMATICS.—I. Algebra,—Fundamental operations, factors, common divisors and multiples, fractions, negative quantities and the interpretation of negative results, powers and roots, the binomial theorem for positive integral exponents, radicals, equations of the first and second degrees with one or more unknown quantities, putting problems into equations, ratios and proportions, variation, arithmetical, geometrical, and harmonical progressions.

2. Plane geometry,—Demonstrations, constructions, and solutions of numerical problems.

ENGLISH.—I. *Reading and Practice*. A limited number of books are assigned for reading. The candidate is required to present evidence of a general knowledge of the subject-matter of these books, and to answer simple questions on the lives of their authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and calls for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present

an exercise book, properly certified to by his instructor, containing compositions or other written work done in connection with the reading of the books.

The books set for this part of the examination will be:—

1897—Shakspere's *As You Like It*; Defoe's *History of the Plague in London*; Irving's *Tales of a Traveler*; Hawthorne's *Twice Told Tales*; Longfellow's *Evangeline*; George Eliot's *Silas Marner*.

1898—Milton's *Paradise Lost*, Books I. and II.; Pope's *Iliad*, Books I. and XXII.; the *Sir Roger de Coverley Papers in The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *Ancient Mariner*; Southey's *Life of Nelson*; Carlyle's *Essay on Burns*; Lowell's *The Vision of Sir Launfal*; Hawthorne's *The House of the Seven Gables*.

1899—Dryden's *Palamon and Arcite*; Pope's *Iliad*, Books I., VI., XXII., and XXIV.; the *Sir Roger de Coverley Papers in The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *Ancient Mariner*; De Quincey's *The Flight of a Tartar Tribe*; Cooper's *The Last of the Mohicans*; Lowell's *The Vision of Sir Launfal*; Hawthorne's *The House of the Seven Gables*.

1900—Dryden's *Palamon and Arcite*; Pope's *Iliad*, Books I., VI., XXII., and XXIV.; the *Sir Roger de Coverley Papers in The Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; De Quincey's *The Flight of a Tartar Tribe*; Cooper's *The Last of the Mohicans*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*.

2. *Study and Practice.* A smaller number of books are assigned for more careful study. The examination upon these books covers subject-matter, form, and structure, and also tests the candidate's ability to express his knowledge with clearness and accuracy.

The books set for this part of the examination will be:—

1897—Shakspere's *Merchant of Venice*; Burke's *Speech on Conciliation with America*; Scott's *Marmion*; Macaulay's *Life of Samuel Johnson*.

1898—Shakspere's *Macbeth*; Burke's *Speech on Conciliation with America*; De Quincey's *The Flight of a Tartar Tribe*; Tennyson's *The Princess*.

1899—Shakspeare's *Macbeth*; Milton's *Paradise Lost*, Books I. and II.; Burke's *Speech on Conciliation with America*; Carlyle's *Essay on Burns*.

1900—Shakspeare's *Macbeth*; Milton's *Paradise Lost*, Books I. and II.; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

NOTE.—No candidate will be accepted in English whose work is notably defective in point of spelling, punctuation, idiom, or division into paragraphs.

LATIN-SCIENTIFIC COURSE.

Candidates for admission to the Latin-Scientific Course are examined in the following books and subjects:—

LATIN.—Same requirements as for the Classical Course.

HISTORY AND GEOGRAPHY.—Same requirements as for the Classical Course, including Greek history and geography.

MATHEMATICS.—Same requirements as for the Classical Course.

ENGLISH.—Same requirements as for the Classical Course.

FRENCH OR GERMAN, at the option of the candidate. Such a knowledge of the language chosen is required as may be obtained by the reading of at least 400 pages of French or 300 pages of German, part of which should be read at sight. The examination consists of easy passages at sight, elementary grammatical questions, and the translation of simple English sentences into French or German. To meet this requirement two years' work will generally be necessary.

[For announcement of increase in 1898 in the requirements for admission to the Latin-Scientific Course, see page 30.]

SCIENTIFIC COURSE.

Candidates for admission to the Scientific Course have the option of the three following series of requirements:—

A.

MATHEMATICS.—Same requirements as for the Classical Course, with the addition of the following subjects:—

1. Solid geometry.

2. Plane and spherical trigonometry, with the use of logarithmic and trigonometric tables.

3. Analytical geometry,—the straight line, the circle, and elementary properties of the conic sections.

ENGLISH.—Same requirements as for the Classical Course.

FRENCH OR GERMAN, at the option of the candidate. Such a knowledge of the language chosen is required as may be obtained by the reading of at least 400 pages of French or 300 pages of German, part of which should be read at sight. The examination consists of easy passages at sight, elementary grammatical questions, and the translation of simple English sentences into French or German. To meet this requirement two years' work will generally be necessary.

NATURAL SCIENCE.—Any one of the three following courses, at the option of the candidate:—

I. *Botany and Physical Geography*.—1. In botany the candidate must pass an examination in Gray's *Lessons in Botany*, and must show ability to dissect flowers of ordinary difficulty, and to write descriptions of them.

2. In physical geography, such a knowledge of the subject is required as can be gained from the study of Geikie's *Elementary Lessons in Physical Geography*, or Tarr's *Elementary Physical Geography*.

II. *Chemistry*.—1. Such a knowledge of the subject is required as can be gained from Storer and Lindsay's *Manual of Chemistry*, or from Remsen's *Chemistry, Elementary Course*.

2. The candidate must also have performed a series of at least fifty experiments, and must present his original note-book, containing records of the processes and results of the experiments, and certified to by his instructor.

III. *Physics*.—1. Such a knowledge of the subject is required as can be gained from Carhart and Chute's *Elements of Physics*, or Gage's *Introduction to Physical Science*.

2. The candidate must also have performed a series of at least thirty experiments *involving careful measurements*, and must present his original note-book, containing full records of the experiments, and certified to by his instructor. The experiments may be selected from such manuals as Worthington's *Physical Laboratory Practice*, or Chute's *Physical Laboratory Manual*.

B.

MATHEMATICS.—Same requirements as for the Classical Course.

ENGLISH.—Same requirements as for the Classical Course.

FRENCH AND GERMAN.—The entrance requirements in both French and German (as specified under A), and an advanced course in either French or German, at the option of the candidate. This advanced course includes the reading of at least 400 pages of French or 300 pages of German (not more than half of which should be fiction), and regular practice in writing and speaking French or German. At least one additional year of study will be necessary to meet this requirement.

NATURAL SCIENCE.—Same as specified under A.

C.

MATHEMATICS.—Same requirements as for the Classical Course.

ENGLISH.—Same requirements as for the Classical Course.

FRENCH OR GERMAN.—Same as specified under A.

NATURAL SCIENCE.—*All three* of the courses specified under A.

[In 1898, candidates for the Latin-Scientific Course will be examined in the following subjects:—

Latin, ancient history and geography, mathematics, and English, as required for the Classical Course.

Two additional courses to be selected from the following list (provided that at least one course in modern languages must be selected):—

Elementary French, as specified on page 28;

Elementary German, as specified on page 28;

Advanced French, as specified above;

Advanced German, as specified above;

Physical geography and botany, as specified on page 29;

Physics, as specified on page 29;

Chemistry, as specified on page 29;

History of England and of the United States—such a knowledge of the subject as can be gained from Higginson and Channing's English History for Americans and Johnston's History of the United States for Schools.

In 1898, candidates for the Scientific Course will be examined in the following subjects:—

English and mathematics as required for the Classical Course.

History of England and of the United States, as specified on page 30.

Six additional courses, to be selected from the following list (provided that at least one course in modern languages and at least one course in Natural Science must be selected):—

Latin (counting as two courses),—Grammar, Cæsar's Gallic War, books I.–IV., translation into Latin of simple English sentences;

Advanced Mathematics (counting as two courses), as specified under Course A.

Elementary French (counting as two courses), as specified on page 28;

Elementary German (counting as two courses), as specified on page 28;

Advanced French, as specified on page 30;

Advanced German, as specified on page 30;

Physical geography and botany, as specified on page 29;

Physics, as specified on page 29;

Chemistry, as specified on page 29.

The requirements for admission to the Latin-Scientific and Scientific Courses are to be made equal to those in the Classical Course in the year 1901.]

SPECIAL COURSES.

Special students, not candidates for a degree, may be admitted, upon passing such examinations as the Faculty shall in each case prescribe.

GENERAL REGULATIONS CONCERNING ADMISSION.

ADVANCED STANDING.—All candidates for advanced standing are examined in the preparatory studies, and also in those previously pursued by the classes they propose to enter, or in other studies equivalent to them. No candidate can be admitted later than at the beginning of the Senior year.

PRELIMINARY EXAMINATIONS.—A student who has accomplished half or more of the preparatory course, may be examined on that part and receive credit therefor a year or more in advance of the time at which he expects to enter college. In such a case, he will be examined, in any subsequent year in which he may present himself, only on those studies on which he has not already passed. But no credit will be given unless the candidate is able, in the June and September examinations of any year taken together, to pass on at least half of the preparatory course.

DATE AND PLACE OF EXAMINATIONS.—The regular examination for admission is held on the Thursday and Friday of Commencement week. Candidates must present themselves at South College at 9 A. M. on the former day. A second examination is held, commencing on the day preceding the first day of the first term. Candidates may be examined in Philadelphia, Cleveland, Cincinnati, or Chicago, provided they make application to the President before June 1. The time of these examinations will be Thursday and Friday of Commencement week. But, if no applications are received before June 1, these examinations will not be held.

ADMISSION BY CERTIFICATE.—Certificates covering the foregoing requirements for admission to college are received from certain schools of good standing, which have been approved by the Faculty. Detailed information concerning admission by certificate may be obtained on application to the President, or to the Secretary of the Faculty.

Ladies are admitted to equal privileges in the University with gentlemen.

All candidates for admission must present satisfactory testimonials of good moral character; and certificates of regular dismission will be required from those who have been members of other colleges.



COURSES OF INSTRUCTION.

—♦♦—
LATIN.

PROFESSOR MERRILL; ASSOCIATE PROFESSOR NICOLSON.

I. LIVY,—Books 21 and 22. *First half-year.* PROFESSOR NICOLSON.PLAUTUS,—*Captivi*; TERENCE,—*Phormio*; CICERO,—*De Amicitia*.
Second half-year. PROFESSOR NICOLSON.Exercises in sight-translation and prose composition throughout the year. SECTION 1, *Mon., Tu., Wed., Th., at 9*; SECTION 2, *Tu., Wed., Th., Fri., at 11.*

Course I. is required of Classical and of Latin-Scientific Freshmen.

II. HORACE,—*Odes and Epodes.* *Tu., Th., at 11 (first half-year).* PROFESSOR NICOLSON.OVID, TIBULLUS, PROPERTIUS,—*Selected Elegies.* *Wed., Fri., at 11 (second half-year).* PROFESSOR NICOLSON.III. PLINY THE YOUNGER,—*Selected Letters.* *Wed., Fri., at 11 (first half-year).* PROFESSOR MERRILL.CICERO,—*Selected Letters.* *Tu., Th., at 11 (second half-year).* PROFESSOR MERRILL.

Courses II. and III. are elective for those who have taken Course I., and prospective candidates for preliminary honors in Classics are advised to elect both of these courses in the Sophomore year. Each of them may be elected for either half-year separately.

IV. TACITUS,—*Annals, Books 1-3.* *Wed., Fri., at 3 (first half-year).* PROFESSOR MERRILL.HORACE, PERSIUS, JUVENAL,—*Selected Satires*; with a brief course of introductory lectures on the nature and earlier history of Roman satire, accompanied by a few readings from the fragments of the satires of Ennius, Lucilius, and Varro. *Wed., Fri., at 3 (second half-year).* PROFESSOR MERRILL.[V. LUCRETIUS,—*Books 1 and 3, and selections from other books.* *Twice a week (first half-year).* PROFESSOR NICOLSON.CATULLUS. *Twice a week (second half-year).* PROFESSOR MERRILL.]

Courses IV. and V. are elective for those who have taken Course I. and either Course II. or Course III. Courses IV. and V. may be elected for either half-year separately. They are given in alternate years, Course V. being omitted the present year.

[VI. ROMAN POETRY. A course of about thirty lectures and readings to illustrate the historical development and literary characteristics of Roman poetry, exclusive of satire. Considerable collateral reading in the poets chiefly discussed is required of the students. *Twice a week (first half-year)*. PROFESSOR MERRILL.]

IVID,—Fasti; with especial attention to historical and topographical questions. *Twice a week (second half-year)*. PROFESSOR NICOLSON.]

Course VI. is omitted the present year, but will be given in 1897-98. It will be elective under the same conditions as Courses IV. and V.

VII. LATIN PROSE COMPOSITION. The course begins with the systematic study of the elementary principles of Latin rhetoric, accompanied by brief practical exercises, and proceeds, in the second half-year, to the rendering into Latin of connected passages of modern historical and epistolary prose. *Mon., at 3*. PROFESSOR NICOLSON.]

Course VII. is elective for those who have taken Course I., and prospective candidates for preliminary honors in classics are advised to elect it in the Sophomore year.

[VIII. LATIN PROSE COMPOSITION. A course in continuation of Course VII., involving original composition in Latin on historical, descriptive, and argumentative themes. *Once a week*. PROFESSOR MERRILL.]

Course VIII. is elective for those who have taken Course VII. It is omitted the present year, but will be given in 1897-98.

IX. ROMAN TOPOGRAPHY AND PUBLIC BUILDINGS. A course of lectures, illustrated by photographs, engravings, and lantern-slides, and requiring some collateral study of original authorities, and the careful preparation of note-books. *Tu., Th., at 11*. PROFESSOR MERRILL.]

[X. ROMAN PRIVATE LIFE AND SOCIAL INSTITUTIONS. A course of lectures, illustrated by photographs, engravings, and lantern-slides, and requiring some collateral study of original authorities, and the careful preparation of note-books. *Twice a week*. PROFESSOR MERRILL.]

Courses IX. and X. are given in alternate years, the latter being omitted the present year. They are elective for those who have taken Course I., provided the previous approval of the instructor is obtained.

GRADUATE INSTRUCTION. The following courses are intended primarily for graduate students, although undergraduates who are especially well qualified may be admitted to any of them on special application to the instructor:—

XI. BOOK AND JOURNAL CLUB, for the tracing of current progress in Latin literature and Roman archaeology. *Once a week.* PROFESSORS MERRILL AND NICOLSON.

XII. LATIN EPIGRAPHY. A course for beginners, with especial attention to the study of inscriptions as historical evidence. After a brief survey of the general classes and formal characteristics of Latin inscriptions, based upon Egbert's Introduction, the course proceeds to the interpretation of individual inscriptions after the method of the *German Seminar*. *Tu., Th., at 3.* PROFESSOR MERRILL.

XIII. METHODS OF RESEARCH. A course of lectures on the general principles of interpretation and criticism as applied to classical authors, accompanied by practical demonstrations, and leading, in the second half-year, to the study by the individual students of fairly simple and typical problems in the same field, and the presentation of papers embodying the results of the work for criticism before and by the class. *Twice a week.* PROFESSOR MERRILL.

XIV. LATIN SEMINARY. A course of practice in the minute and critical interpretation of some Latin author, and in the preparation and criticism of papers on themes connected with the work of interpretation. The methods followed are based upon those of the *German Seminar*. The authors selected for interpretation vary from year to year. Each meeting lasts two hours. *Twice a week.* PROFESSOR MERRILL.

For the successful prosecution of Courses II.-VI., IX., and X., ability to read German prose on philological subjects is especially desirable, and for Courses XI.-XIV., it is necessary. Students, therefore, who look forward to the study of Latin beyond the required course, and who have on admission to college no acquaintance with German, should elect German in the Freshman year.

GREEK.

PROFESSOR VAN BENSCHOTEN; DR. PATON.

I. LYSIAS,—Selected Orations. Greek prose composition. *First term.* DR. PATON.

HERODOTUS,—History of the Persian Wars, with collateral reading. Greek prose composition. *Second term.* DR. PATON.

HOMER,—Odyssey V.–VIII. Prosody; Homeric language; the Homeric question. *Third term.* DR. PATON.

Sight-reading is practiced throughout the year. SECTION 1, *Tu., Wed., Th., Fri., at 10;* SECTION 2, *Tu., Wed., Th., Fri., at 12.*

Course I. is required of Classical Freshmen.

II. SOPHOCLES,—Oedipus Tyrannus. Lectures on the Greek drama, with collateral reading. *First half-year.* DR. PATON.

PLATO,—Euthyphro, Apology, Crito, Phaedo. Studies in Greek philosophy. Lectures and collateral reading. *Second half-year.* DR. PATON. SECTION 1, *Tu., Th., at 11.* SECTION 2, *Wed., Fri., at 11.*

Course II. is elective for those who have taken Course I.

III. THE LIFE AND LANGUAGE OF THE GREEKS. *Mon., at 12.* PROFESSOR VAN BENSCHOTEN.

Course III. is elective for those who take or have taken Course II.

IV. GREEK COMEDY. The Frogs and the Acharnians of Aristophanes. *First half-year.* PROFESSOR VAN BENSCHOTEN.

GREEK TRAGEDY. Aeschylus, Sophocles, Euripides. *Second half-year.* PROFESSOR VAN BENSCHOTEN.

One meeting of each week will be devoted to special studies in the Greek language and literature. *Mon., at 10; Wed., at 9; Th., at 8.* Course IV. is elective for those who have taken Courses I.–III.

[V. GREEK PHILOSOPHY. The Clouds of Aristophanes; Aristotle's Poetics; Xenophon; Euripides. *Three times a week.* PROFESSOR VAN BENSCHOTEN.]

In connection with Course V., weekly meetings are held for special studies in language and literature.

Course V. is elective for those who have taken Courses I.–III.

Courses IV. and V. are given in alternate years, Course V. being omitted the present year.

[VI. BIBLICAL GREEK. The text used will be Scrivener's New Testament in Greek, with the Revisers' Readings. Collateral

studies; texts and translations. *Twice a week.* PROFESSOR VAN BENSCHOTEN.]

Course VI. is elective for those who have taken Course II. It is omitted the present year.

VII. LYRIC POETRY. PINDAR. *Three times a week (first term).* PROFESSOR VAN BENSCHOTEN.

LUCIAN. *Three times a week (second term).* PROFESSOR VAN BENSCHOTEN.

PAUSANIAS; NEO-HELLENIC,—with collateral work on the geography and topography of Greece. *Three times a week (third term).* PROFESSOR VAN BENSCHOTEN.

One meeting each week is devoted to special advanced studies of the nature indicated under Courses IV. and V.

Course VII. is elective for those who have taken either Course IV. or Course V.

[VIII. GREEK EPIGRAPHY. Hicks' Manual of Greek Historical Inscriptions. Lectures. Practice in reading from squeezes and fac-similes. *Once a week.* DR. PATON.]

Course VIII. is elective for those who have taken either Course IV. or Course V. It is omitted the present year.

IX. CONSTITUTIONAL HISTORY OF ATHENS. Aristotle's Treatise on the Constitution of Athens will form the basis of the course, but will be supplemented by lectures and collateral reading. *Fri., at 3.* DR. PATON.

Course IX. is elective for those who have taken with credit Courses I. and II.

[X. SEMINARY FOR THE STUDY OF GREEK ARCHAEOLOGY. *Once (counting as twice) a week.* PROFESSOR VAN BENSCHOTEN.]

Course X. is elective for those who have taken Courses I.—III. It is omitted the present year.

XI. GREEK LITERATURE. Lectures and collateral reading. *Th., at 9 (counting as twice a week).* PROFESSOR VAN BENSCHOTEN.

Course XI. is elective for those who have taken Courses I.—III. Courses X. and XI. are given in alternate years.

It is very desirable that those who elect the advanced courses in Greek should be able to read German prose on philological subjects.

GRADUATE INSTRUCTION. Courses VIII.—XI., although elective for advanced undergraduates, are designed also for graduate students.

GERMAN.

ASSOCIATE PROFESSOR FAUST.

I. Otis' Elementary German, Part I., Lessons I.-XXIV. Harris' German Reader. Heyse,—L'Arrabbiata. Zschokke,—Das Abenteuer der Neujahrsnacht und der zerbrochene Krug. Goethe,—Egmont. Harris' German Composition. Thomas' Practical German Grammar. SECTION 1, *Mon., Wed., Fri., at 8*; SECTION 2, *Tu., Wed., Th., at 3*.

For rules in regard to the election of I. German, see page 41.

II. READINGS. Classical: Schiller,—Wilhelm Tell; Lessing,—Minna von Barnhelm; Goethe,—Hermann und Dorothea. Scientific: Hodge's A Course in Scientific German; Helmholtz,—Goethe's Naturwissenschaftliche Arbeiten.

PROSE COMPOSITION AND GRAMMAR. von Jagemann's German Prose Composition, and German Syntax.

GERMAN LITERATURE. Kluge,—Geschichte der deutschen National-Litteratur. Lectures on great epochs in German Literature. *Mon., Wed., Fri., at 11*.

Course II. is elective for those who have taken Course I.

III. GERMAN CONVERSATION. For the purpose of acquiring a vocabulary and readiness in the use of German, the following phrase-books serve as guides: Whitcomb and Otto,—German and English Conversations; Meissner,—Practical Lessons in German Conversation. All class exercises are conducted in the German language. Lectures in German are given on subjects connected with the geography (illustrated by physical and political maps) and "Kulturgeschichte" of Germany. SECTION 1, *Mon., at 2*; SECTION 2, *Wed., at 2*.

Two years' preparation, equivalent to I. and II. German, is considered necessary for attendance in this course.

IV. GERMAN LYRICAL POETRY. Readings and lectures; the period chosen for special study being the nineteenth century. Texts: Buchheim,—Deutsche Lyrik,—Balladen und Romanzen; Schiller,—Das Lied von der Glocke; Scheffel,—Der Trompeter von Säckingen. *Fri., at 2*.

This course is elective for those who have taken Course I.

V. GOETHE'S FAUST,—Part I., and selected portions of Part II. A critical study of the text, and discussion of the questions concerning the beginnings and the composition of the drama. Editions:—Thomas, Faust I.; G. von Loeper, Faust II. *Tu., Th., at 2 (counting as three times a week). First half-year.*

VI. MIDDLE HIGH GERMAN. Paul,—Mittelhochdeutsche Grammatik, 4te. Auflage, Halle, 1894; Weinhold,—Mittelhochdeutsches Lesebuch. *Tu., Th., at 2 (counting as three times a week). Second half-year.*

Courses V. and VI. are elective for those who have taken Course II.

GRADUATE INSTRUCTION. Courses V. and VI. are designed also for graduate students. Those desiring advanced work in German literature, or an introduction into the study of German philology are assigned courses of private reading.

ROMANCE LANGUAGES.

PROFESSOR KUHN.

I. FRENCH. Whitney's Practical French Grammar, Part I. Super's French Reader; Erckmann-Chatrian,—Madame Thérèse; Jules Verne,—Le Tour du Monde en Quatre-vingts Jours; Victor Hugo,—Quatre-vingt-treize. Part of the above books are read at sight. There is also personal drill in pronunciation. *Mon., Wed., Fri., at 8.*

For rules in regard to the election of I. French, see page 41.

II. FRENCH. Whitney's Grammar, Part II., and Roulier's Second Book of French Composition. This course has for its main object the study of advanced grammar and composition, in connection with the reading of a large amount of French. During the second half-year more attention is paid to the literature. Books read this year are:—Taine,—Les origines de la France contemporaine; Victor Hugo,—Les Misérables; Musset,—Selections; Victor Hugo,—Hernani; Racine,—Andromaque; Molière,—Le Misanthrope; Feuillet,—Le Roman d'un Jeune Homme Pauvre; Ohnet,—Le Maître de Forges. The last two books are not read in class, but are prepared privately by the students for examination. *Tu., Th., at 8.*

Course II. is elective for those who have taken Course I.

III. FRENCH. French conversation. Bercy,—Le Français Pratique. During the year informal lectures on European travel are given in French, some of which are illustrated by lantern-slides. *Mon., at 11.*

Course III. is elective for Sophomores who have taken Course I., and have received special permission from the instructor.

IV. FRENCH. French literature in the seventeenth, eighteenth, and nineteenth centuries. The following books are read, but not translated, questions on the subject-matter being put and answered in French: Corneille,—*Le Cid*; Racine,—*Phèdre*; Molière,—*Les Femmes Savantes*; La Fontaine,—*Fables*; Boileau,—*L'Art Poétique*; Voltaire,—*Mérope*; Rousseau,—*selections*; Chateaubriand,—*Atala*; Lamartine,—*selections*; Victor Hugo,—*Hernani*, and lyrical poetry; Musset,—*comedies, stories, and poetry*; Balzac,—*Eugénie Grandet*.

There is at each recitation translation of English into French. Further, frequent lectures in French are given on the general state of literature in France in the seventeenth, eighteenth, and nineteenth centuries.

In addition, each member of the class must take a somewhat extended course of reading, must prepare for the class an abstract of what he has read, and must also write a short essay in French on the life of a selected author. For the first half-year these readings will be in early French drama, in Corneille, Racine, Molière, La Fontaine, Voltaire, and Rousseau; for the second half-year, in Chateaubriand, Lamartine, Victor Hugo, Alfred de Musset, Balzac, and George Sand. *Tu., Th., at 11 (counting as three times a week).*

Course IV. is elective for those who have taken Courses I.-III.

V. OLD FRENCH. Constans' *Chrestomathie de l'Ancien Français*. Exercises in Old French etymology, based on *La Vie de Saint Alexis*.

Each member of the class must select one of the following subjects for investigation, and write an essay on the result of his study: (1) *Miracle and Mystery Plays*, (2) *Aymeri de Narbonne and the Geste de Guillaume*, (3) *Chanson de Roland and the Geste du Roi*. *Th., at 12 (counting as twice a week).*

Course V. is elective for those who have taken Courses I.-IV.

[VI. SEMINARY COURSE.—Special investigations in French language and literature. *Once (counting as twice) a week.*]

Course VI. is elective for those who have taken Courses I.-V. It is omitted the present year.

VII. ITALIAN. *Italian Principia*, I. De Amicis,—*Cuore*; Manzoni,—*I Promessi Sposi*; Pellico,—*Le mie Prigioni*. In addition to the regular work by the class in translating modern prose, the instructor translates and interprets to the class the *Inferno* and the *Purgatorio* of Dante, the last half-hour of each recitation being devoted to this

exercise. As a preparation for this part of the work, the class is required to read Rossetti's *Shadow of Dante*. *Mon., Fri., at 3.*

COURSE VII. is elective for Sophomores who have taken I. French.

HONOR COURSE.—Candidates for special honors in Romance Languages who are working in Old French or who are making special study of the *Divine Comedy*, meet the instructor once in two weeks for consultation.

GRADUATE INSTRUCTION. Courses V. and VI. are designed for graduate students, but are elective for undergraduates.

Of the courses in French and German, Classical Freshmen are required to pursue either I. French or I. German, but are allowed their option between the two. Students in the Latin-Scientific Course are required to pursue one course in French or German; they may continue the study of the language in which their entrance examination was taken, or may begin the study of the other language, as they may elect. Students in the Scientific Course are required to take the equivalent of Courses I. and II. in French and I. and II. in German. Such of these courses as they have not pursued before entering college, they must take as soon as possible after entering.

ENGLISH LITERATURE.

PROFESSOR WINCHESTER.

I. GENERAL INTRODUCTION TO ENGLISH LITERATURE. 1. An outline of the history of the literature. Stopford Brooke's *English Literature*, with lectures. *Mon., Wed., Fri., at 12 (first half-year).*

2. Class-room reading and discussion of literary masterpieces. The works selected this year are:—Chaucer's Prologue to the *Canterbury Tales*, selections in Corson's Edition; Shakspeare's *Hamlet*; selections from Pope's *Satires*. *Mon., Wed., Fri., at 12 (second half-year).*

3. A brief course of collateral reading, with written recitations and essays upon subjects drawn from the reading. Members of the class may choose any one of the courses in Winchester's *Five Short Courses of Reading in English Literature*. These courses consist of selections from the following authors:—

(1.) 1559–1674. Marlowe, Green, Shakspeare, Bacon, Milton.

(2.) 1660-1745. Dryden, Addison, Steele, Swift; with Johnson's *Lives of Dryden, Swift, and Pope*, and Thackeray's *Lectures on the English Humourists*.

(3.) 1745-1789. Gray, Goldsmith, Johnson, Burke, Cowper, Burns; with Leslie Stephen's *Life of Johnson*, Dobson's *Life of Goldsmith*, Morley's *Life of Burke*.

(4.) 1789-1832. Wordsworth, Coleridge, De Quincey, Lamb, Byron, Shelley, Keats.

(5.) 1832-1880. Carlyle, Ruskin, Matthew Arnold, Browning, Tennyson.

Course I. is elective for Juniors.

II. ENGLISH LITERATURE of the Victorian period, 1832-1880. Carlyle, Ruskin, Matthew Arnold, Tennyson, and Browning. Critical reading and discussion; lectures. SECTION 1, *Mon., Wed., Fri., at 9*; SECTION 2, *Mon., Wed., Fri., at 11*.

Course II. is elective (with some restrictions) for those who have taken Course I. It will be omitted in 1897-98.

[III. ENGLISH POETRY from 1789 to 1832. Burns, Wordsworth, Coleridge, Scott, Byron, Shelley, Keats. Critical reading and discussion; lectures. *Three times a week.*]

Course III. is elective (with some restrictions) for those who have taken Course I. It is omitted the present year.

IV. ELEMENTS OF LITERARY CRITICISM. A course of lectures upon the essential elements and the various forms of literature, with practical exercises in the application of critical principles. *Tu., at 12.*

Course IV. is elective for those who have taken Course I.

V. ENGLISH COMPOSITION. The rhetorical exercises of the Senior class are assigned to this department. Every Senior must write an argument for debate before his class, and either four essays or two public orations. All written work receives the personal criticism of the Professor, and the orations are also rehearsed before the Professor of Elocution.

GRADUATE INSTRUCTION. The following courses are open to graduate students only:—

VI. THE HISTORY OF ENGLISH LITERARY CRITICISM. An outline study of the growth of the development of English criticism, and of the changes in critical standards and in literary forms from 1745 to 1832.

Special attention will be paid to the beginnings of the romantic movement, 1745-1789; to the discussion of literary theory by Wordsworth and Coleridge; and to the literary criticism in the Reviews during the first quarter of the century. *Mon., at 4.*

[VII. THE ELIZABETHAN DRAMA. A survey of the origin of the Elizabethan drama, with some notice of the principal works of Shakspeare's immediate predecessors, followed by more careful study of a somewhat large group of Shakspeare's most important dramas. *Once a week.*]

Course VII. is omitted the present year.

ENGLISH LANGUAGE.

PROFESSOR MEAD.

I. A. GENERAL HISTORY OF THE ENGLISH LANGUAGE, with lectures and illustrative examples from Old English. Emerson's Brief History of the English Language, and Cook's First Book in Old English. Skeat's Concise Etymological Dictionary is used for reference. *Mon., at 3 (counting as twice a week).*

B. SELECTIONS FROM MACAULAY'S ESSAYS, with lectures, illustrative extracts from the authors discussed in the Essays, and collateral reading in English history. *Fri., at 3 (counting as twice a week).*

Freshmen are required to take I. A or I. B. Course I. A is a necessary preparation for Course IV. Students who have not shown special aptitude for linguistic study are advised to elect Course I. B rather than I. A.

II. RHETORIC. Hill's Principles of Rhetoric. The members of the class are required to write, in addition to their regular essays, weekly exercises illustrating and applying the principles laid down in the text-book. These exercises are discussed and criticised by the class. As a study in modern prose style, the class analyze the addresses in Baker's Specimens of Argumentation, and read and discuss in the class-room the essays by Macaulay and Carlyle on Croker's edition of Boswell's Life of Johnson, and Brewster's Studies in Structure and Style. *Tu., Wed., Fri., at 9 (first half-year).*

Course II. is required of Sophomores.

III. ENGLISH COMPOSITION. A. Each member of the Freshman class is required to present frequent written exercises, based upon the collateral reading in Course I. A or I. B. The theory of composition is treated in a brief course in elementary rhetoric.

B. Sophomores write six essays during the year on subjects approved by the instructor. Each member of the class meets the instructor privately for individual criticism.

C. Juniors write on subjects of their own selection, and choose one of the two following courses:—Course I., consisting of five general and two departmental essays; Course II., consisting of two general and four departmental essays. The departmental essays must be written on subjects related to some department of college work and approved by the instructor. Appointments for individual criticism are made for each member of the class.

IV. OLD ENGLISH. 1. Bright's Anglo-Saxon Reader, with an introductory course in Cook's First Book in Old English. Sievers' Old English Grammar is used for reference. Skeat's English Etymology is taken as the basis for studies in derivations. As collateral reading, Freeman's Old English History and Gardiner's Student's History of England are recommended. The history of Old English literature is treated in a course of weekly lectures. [See Course V.]

2. Each member of the class is required, in addition, to select one of the following courses for private reading:—(1) The Anglo-Saxon Chronicle, entire. (2) Cynewulf's Elene. *Tu., Th., at 3.*

Course IV. is elective for Sophomores who have taken Course I. A. It must be taken by all who intend to elect the courses in Early English.

V. OLD ENGLISH LITERATURE. A course of lectures on the history of Old English literature before 1100 A. D., with some account of contemporary Germanic literature. *Wed., at 3.*

Course V. is elective for Sophomores, but is required of those who elect Course IV.

[VI. EARLY ENGLISH. The period to be studied extends from Layamon to the imitators of Chaucer.

1. Morris and Skeat's Specimens of Early English. The second half-year is devoted principally to Chaucer. The historical development of the literature is discussed in a course of weekly lectures (see Course VII.). For collateral reading, ten Brink's History of English Literature is recommended.

2. Each member of the class elects one of the following courses of collateral reading, and presents at least one thesis on a topic requiring special investigation:—

- (1) Selections from the Arthurian Romances, with a study of some of their sources.
- (2) Selections from the Charlemagne Romances.
- (3) Selections from Chaucer's Canterbury Tales and minor poems. *Twice a week.*]

Course VI. is elective for those who have taken Course IV. Those who elect it must also elect Course VII.

Courses IV. and VI. are given in alternate years. Course VI. is omitted the present year.

[VII. EARLY ENGLISH LITERATURE.—A course of lectures on English literature from the Norman conquest to the revival of learning. The aim of this course is to point out the relations of the early literature of England to the contemporary literature of Europe, and to indicate the materials that have been used again in modern English literature. Especial attention is given to the Arthurian Romances and to Chaucer. *Once a week.*]

Course VII. is elective for Juniors, even for those who have not taken Course IV., but is required of those who elect Course VI. Courses V. and VII. are given in alternate years, Course VII. being omitted the present year.

VIII. BEOWULF. An advanced course in Old English poetry, with supplementary linguistic investigations involving comparison of Old English and Gothic forms. *Mon., at 12 (counting as twice a week).*

Course VIII. is elective for those who have taken Course V.

GRADUATE INSTRUCTION. Graduate courses may be arranged by conference with the head of the department.

ELOCUTION.

PROFESSOR HIBBARD.

I. DECLAMATION. Members of the Freshman class are required to deliver declamations, mostly of their own selection, fortnightly.

Every member of the Sophomore class is required to deliver nine, and every member of the Junior class is required to deliver six, declamations in the year.

II. THEORY OF ELOCUTION. 1. Mechanics of speech. Theories of vocal expression. Text-book, Russel's Vocal Culture. *First term.*

2. Gesture, theories of Austin and Delsarte. Text-book, Bacon's Manual of Gesture. *Second term.*

3. Study of style. Lectures on extempore speech and sources of power. *Third term. Tu., Th., at 3.*

Course II. is elective for Juniors.

HISTORY.

DR. FARRAND.

I. OUTLINES OF GENERAL HISTORY. This course includes a survey of those ancient civilizations of the East which have exerted a direct and important influence in the general historic movement, the history of Greece and Rome, a sketch of the rise of Christianity, of the appearance of the Teutons, and a discussion of the combination of the causes and events which lead up to the period in history known as the Mediaeval period. Fisher's Outlines of Universal History is used as a text-book, supplemented with lectures. *Mon., Wed., at 9 (first half-year).*

Course I. is elective for Juniors.

II. OUTLINES OF GENERAL HISTORY. A continuation of Course I. This course treats of European History in the Middle Ages, taking for its central theme the Holy Roman Empire and the rise of the modern state systems of Europe. Text-book, lectures, and recitations, as in Course I. *Mon., Wed., at 9 (second half-year).*

Course II. is elective for Juniors.

III. HISTORY OF ENGLAND AND FRANCE. England and France in their mutual relations and independent developments are treated from the time of the Teutonic conquests of Gaul and Britain to the close of the Napoleonic wars. Green's Short History of the English People and Duruy's History of France are read in connection with the lectures. *Mon., Wed., at 11 (second half-year).*

Course III. is elective for Juniors.

IV. ENGLISH CONSTITUTIONAL HISTORY. Montague's Elements of English Constitutional History, Cheyney's English Constitutional Documents. The course consists of lectures and recitations upon the origin and growth of the English constitution, with discussions of

the most important documents. The subject is treated with special reference to American constitutional history. *Tu., Th., at 12 (first half-year).*

Course IV. is elective for Juniors.

V. POLITICAL AND ECONOMIC HISTORY OF THE UNITED STATES. The course is introduced by a survey of the period of colonization, and of the struggle between the French and English for possession of the continent. An extended examination of the political and economic life of the United States during the first century of the Constitution follows. *Tu., Th., at 3.*

Course V. is elective for Juniors.

VI. HISTORICAL SEMINARY. The Constitution of the United States: its historical origin, and its later development, will be the general subject for discussion in the seminary. Each member is assigned some special topic within this field for independent investigation. *Tu., Th., at 12 (second half-year).*

Course VI. is elective for Seniors who take or have taken Courses IV. and V.

ECONOMICS AND SOCIAL SCIENCE.

PROFESSOR FISHER.

I. PRINCIPLES OF ECONOMIC SCIENCE. General introductory course. Recitations and discussions on the basis of Gide's Principles of Political Economy. *Tu., Wed., Fri., at 10 (second half-year).*

Course I. is required of Juniors.

[II. ADVANCED ECONOMICS. This course includes both a brief historical view, on the basis of Ingram's History of Political Economy and Cossa's Introduction to the Study of Political Economy, and critical studies in the writings of some of the great economists, Smith, Malthus, Ricardo, Say, Senior, Mill, Cairnes, Jevons, Roscher, Wagner, Marshall, and Pierson. *Twice a week.*]

Course II. is elective for those who have taken Course I. It is omitted the present year.

III. PUBLIC FINANCE. The Economy of the State:—revenues from taxation, from government industries, and from other sources; the contraction, administration, conversion, and liquidation of public

debts; government expenditures, their social and industrial effects. The work of this course is based on Plehn's Introduction to Public Finance; lectures are also given, and references are made to standard authorities. *Wed., Fri., at 12.*

Course III. is elective for those who have taken Course I.

IV. MONEY AND BANKING. A course of lectures on the general principles and history of monetary and banking institutions, on the social and industrial aspects of the present monetary situation, and on the various schemes for reform. *Tu., Th., at 11 (first half-year).*

Course IV. is elective for those who have taken Course I.

V. THE GENERAL LABOR PROBLEM. A course of lectures on the nature, causes, and justification of the present social discontent, and on such suggested remedies as moral elevation, charity, education, provident institutions, labor organizations, strikes, conciliation and arbitration, labor legislation, improved wage systems, profit sharing, coöperation, nationalization of the land, socialism, communism, anarchism. *Tu., Th., at 11 (second half-year).*

Course V. is elective for those who have taken Course I.

VI. SOCIOLOGY. A discussion of the fundamental principles of social organization, and the conditions and methods of social progress. *Tu., Th., at 9 (first half-year).*

Course VI. is elective for those who have taken Course I.

VII. SOCIAL SCIENCE. An examination of certain concrete social problems of the present:—pauperism and charity, the defective and criminal classes, immigration. The class-room work is supplemented by visits to several of the charitable, penal, and reformatory institutions in and about Middletown. *Tu., Th., at 9 (second half-year).*

Course VII. is elective for those who have taken Course I. Those who elect it are advised to elect also Course VI.

VIII. ECONOMIC SEMINARY. Each member of the seminary takes for private individual investigation some problem in economics, finance, statistics, or sociology, and week by week reports in class on progress made and obstacles met. At the close of each of the first two terms, essays summarizing the results so far attained are submitted, and in June the work of the year is brought together in a final report or thesis. *Fri., at 3 (counting as twice a week).*

Course VIII. is elective (with some restrictions) for those who take any of the Courses III.-VII.

GRADUATE INSTRUCTION. Course VIII. is intended primarily for graduate students, but is open also to such undergraduates of the Senior year as are making special studies in the department. Courses II.-VII., while open to Seniors, may also be taken with advantage by graduates who have studied only the principles of economic science.

PHILOSOPHY.

PROFESSOR ARMSTRONG; DR. JUDD.

I. LOGIC. Jevons-Hill's Elements of Logic. An elementary course in the fundamental forms of reasoned thinking, deductive and inductive alike. The study of the text-book is illustrated by numerous examples in logical praxis. SECTION 1, *Tu., Fri., at 9*; SECTION 2, *Tu., Fri., at 3 (second half-year)*. DR. JUDD.

Course I. is required of Sophomores.

II. PSYCHOLOGY. Sully's Outlines of Psychology, with references to other authorities. Lectures and discussions are used to supplement the text-book. These are introduced especially in explanation of the more recent psychological investigations and of positions still under debate. *Tu., Wed., Fri., at 10 (first half-year)*. PROFESSOR ARMSTRONG.

Course II. is required of Juniors.

III. PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY. Ladd's Outlines of Physiological Psychology. The course begins with a discussion of the physical basis of mind; but more than half of the time is devoted to the study of the principal experimental methods and results. This part of the work consists in the main of lectures and experimental demonstrations. *Mon., Wed., at 2*. DR. JUDD.

Course III. is elective for Juniors.

IV. LOGIC AND INTRODUCTION TO PHILOSOPHY. (a) Advanced Logic. Hibben's Inductive Logic. The course opens with five lectures on the history of logic. In connection with the text-book, special attention is given to the discussion of scientific method and to the criticism of concrete cases of scientific inference. DR. JUDD. (b) Introduction to Philosophy. Lectures, recitations, and references to Stuckenborg's Introduction to the Study of Philosophy and Ladd's Introduction to Philosophy. PROFESSOR ARMSTRONG. *Tu., Th., Fri., at 11 (first half-year)*.

Course IV. is elective for Juniors.

debts; government expenditures, their social and industrial effects. The work of this course is based on Plehn's Introduction to Public Finance; lectures are also given, and references are made to standard authorities. *Wed., Fri., at 12.*

Course III. is elective for those who have taken Course I.

IV. MONEY AND BANKING. A course of lectures on the general principles and history of monetary and banking institutions, on the social and industrial aspects of the present monetary situation, and on the various schemes for reform. *Tu., Th., at 11 (first half-year).*

Course IV. is elective for those who have taken Course I.

V. THE GENERAL LABOR PROBLEM. A course of lectures on the nature, causes, and justification of the present social discontent, and on such suggested remedies as moral elevation, charity, education, provident institutions, labor organizations, strikes, conciliation and arbitration, labor legislation, improved wage systems, profit sharing, coöperation, nationalization of the land, socialism, communism, anarchism. *Tu., Th., at 11 (second half-year).*

Course V. is elective for those who have taken Course I.

VI. SOCIOLOGY. A discussion of the fundamental principles of social organization, and the conditions and methods of social progress. *Tu., Th., at 9 (first half-year).*

Course VI. is elective for those who have taken Course I.

VII. SOCIAL SCIENCE. An examination of certain concrete social problems of the present:—pauperism and charity, the defective and criminal classes, immigration. The class-room work is supplemented by visits to several of the charitable, penal, and reformatory institutions in and about Middletown. *Tu., Th., at 9 (second half-year).*

Course VII. is elective for those who have taken Course I. Those who elect it are advised to elect also Course VI.

VIII. ECONOMIC SEMINARY. Each member of the seminary takes for private individual investigation some problem in economics, finance, statistics, or sociology, and week by week reports in class on progress made and obstacles met. At the close of each of the first two terms, essays summarizing the results so far attained are submitted, and in June the work of the year is brought together in a final report or thesis. *Fri., at 3 (counting as twice a week).*

Course VIII. is elective (with some restrictions) for those who take any of the Courses III.-VII.

GRADUATE INSTRUCTION. Course VIII. is intended primarily for graduate students, but is open also to such undergraduates of the Senior year as are making special studies in the department. Courses II.-VII., while open to Seniors, may also be taken with advantage by graduates who have studied only the principles of economic science.

PHILOSOPHY.

PROFESSOR ARMSTRONG; DR. JUDD.

I. LOGIC. Jevons-Hill's Elements of Logic. An elementary course in the fundamental forms of reasoned thinking, deductive and inductive alike. The study of the text-book is illustrated by numerous examples in logical praxis. SECTION I, *Tu., Fri., at 9*; SECTION 2, *Tu., Fri., at 3 (second half-year)*. DR. JUDD.

Course I. is required of Sophomores.

II. PSYCHOLOGY. Sully's Outlines of Psychology, with references to other authorities. Lectures and discussions are used to supplement the text-book. These are introduced especially in explanation of the more recent psychological investigations and of positions still under debate. *Tu., Wed., Fri., at 10 (first half-year)*. PROFESSOR ARMSTRONG.

Course II. is required of Juniors.

III. PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY. Ladd's Outlines of Physiological Psychology. The course begins with a discussion of the physical basis of mind; but more than half of the time is devoted to the study of the principal experimental methods and results. This part of the work consists in the main of lectures and experimental demonstrations. *Mon., Wed., at 2*. DR. JUDD.

Course III. is elective for Juniors.

IV. LOGIC AND INTRODUCTION TO PHILOSOPHY. (a) Advanced Logic. Hibben's Inductive Logic. The course opens with five lectures on the history of logic. In connection with the text-book, special attention is given to the discussion of scientific method and to the criticism of concrete cases of scientific inference. DR. JUDD. (b) Introduction to Philosophy. Lectures, recitations, and references to Stuckenberg's Introduction to the Study of Philosophy and Ladd's Introduction to Philosophy. PROFESSOR ARMSTRONG. *Tu., Th., Fri., at 11 (first half-year)*.

Course IV. is elective for Juniors.

V. ANCIENT AND MEDIEVAL PHILOSOPHY. Zeller's Outlines of Greek Philosophy, with references to Schwegeler, Zeller's larger work, and other authorities; lectures and discussions. *Th., Fri., at 11 (second half-year)*. PROFESSOR ARMSTRONG.

Course V. is elective, under ordinary circumstances, for those who have taken Course IV.

VI. MODERN PHILOSOPHY FROM THE RENAISSANCE TO KANT. Falckenberg's History of Modern Philosophy; lectures, recitations, discussions, and references to other standard histories of philosophy. *Mon., Wed., at 11 (first half-year)*. PROFESSOR ARMSTRONG.

Course VI. is elective, under ordinary circumstances, for those who have taken Courses IV. and V.

VII. MODERN PHILOSOPHY FROM KANT TO THE PRESENT TIME. Falckenberg's History of Modern Philosophy; lectures, recitations, discussions, and references to other authorities. *Mon., Wed., at 11 (second half-year)*. PROFESSOR ARMSTRONG.

Course VII. is elective for those who have taken Course VI.

VIII. ADVANCED PSYCHOLOGY. The object of this course is the discussion of the most important questions in systematic psychology. Members of the class present reports on the views of leading thinkers concerning the topics under consideration; and these views are subjected to comparative and independent criticism. *Fri., at 12*. DR. JUDD.

Course VIII. is elective for those who have taken Course III.

IX. READINGS IN MODERN PHILOSOPHY. In this course, representative works of leading thinkers of the first half of the modern period are read and discussed. Special attention is given to selections from Locke, Berkeley, Hume, and Kant. *Mon., at 12; Fri., at 10 (first half-year)*. DR. JUDD.

Course IX. is elective for those who have taken Courses IV. and V., and who are taking Course VI.

X. METAPHYSICAL SEMINARY. The subject for 1896-97 is the Philosophy of Lotze, discussed chiefly from the standpoint of his Metaphysics. *Wed., Fri., at 9; Tu., at 11 (second half-year)*. PROFESSOR ARMSTRONG.

Course X. is elective for those who have taken Courses IV., V., and VI., and who are taking Course VII.

XI. GRADUATE SEMINARY. The philosophy of Kant, as given in the Critiques of Pure Reason, Judgment, and Practical Reason. *Mon.*, at 9; *Th.*, at 3 (*first half-year*). PROFESSOR ARMSTRONG.

Course XI. is elective for graduate students only.

GRADUATE INSTRUCTION. Course XI. is primarily for graduate students, Courses VIII., IX., and X. for advanced undergraduates and graduates. Special courses under the direction of the instructors of the department may be arranged in advanced experimental and theoretical psychology, historical philosophy, and metaphysics.

ETHICS AND EVIDENCES OF CHRISTIANITY.

† PRESIDENT RAYMOND; PROFESSOR RICE; DR. STARKS.

I. ETHICS. Lectures upon the chief subjects in philosophical ethics, with a brief study of Christian ethics. Herbert Spencer's *Data of Ethics* and a part of Martineau's *Types of Ethical Theory* are reviewed in connection with the work of the class. *Tu.*, *Wed.*, *Th.*, at 10 (*first term*). DR. STARKS.

Course I. is required of Seniors.

II. EVIDENCES OF CHRISTIANITY. Lectures, with collateral readings on all the important topics. *Tu.*, *Wed.*, *Th.*, at 10 (*second term*). DR. STARKS.

Course II. is required of Seniors.

[III. THEISM. Instruction is given by lectures, supplemented by collateral readings and class discussions. The purpose of the course is to discover essential religious phenomena, to test the various historic theories offered in explanation of these phenomena, and to find a philosophic basis for faith. *Once (counting as twice) a week (second half-year)*. . PRESIDENT RAYMOND.]

Course III. is elective for those who have taken Courses I., II., IV.-VI. in Philosophy, and who take VII. Philosophy. It is omitted the present year.

[IV. RELATIONS OF SCIENCE AND RELIGION. A course of lectures on the history of important advances in scientific thought and their bearings on theistic and Christian belief. The heliocentric astronomy, the antiquity of the earth and of man, the theory of evolution, and the correlation of physical and vital forces, are among the topics discussed. *Twice a week (second half-year)*. PROFESSOR RICE.]

Course IV. is elective for Juniors. It is omitted the present year.

† Absent for the year.

MATHEMATICS AND ASTRONOMY.

PROFESSOR J. M. VAN VLECK; ASSOCIATE PROFESSOR E. B. VAN VLECK;
DR. LING.

I. SOLID GEOMETRY. Phillips and Fisher's Elements of Geometry. *First third of the year.*

TRIGONOMETRY. Plane and Spherical. *Second third of the year.*

ANALYTICAL GEOMETRY. Elementary course. *Last third of the year.* SECTION 1, *Mon., Tu., Th., Fri., at 9;* SECTION 3, *Mon., Tu., Th., Fri., at 12.* DR. LING. SECTION 2, *Mon., Tu., Th., Fri., at 10.* PROFESSOR E. B. VAN VLECK.

Course I. is required of Classical and Latin-Scientific Freshmen, and of Scientific Freshmen who enter according to requirements B or C (see page 30).

II. ALGEBRA. Advanced course. Hall and Knight's Higher Algebra. *Fri., at 11.* DR. LING.

Course II. is elective for those who have taken Course I.

III. ANALYTICAL GEOMETRY. Advanced course. *Mon., Wed., at 11.* DR. LING.

Course III. is elective for those who have taken Course I.

IV. DIFFERENTIAL AND INTEGRAL CALCULUS. Elementary course. Osborne's Treatise on Differential and Integral Calculus. *Mon., Wed., Fri., at 12.* PROFESSOR E. B. VAN VLECK.

Course IV. is elective for those who have taken Course I.

Courses II., III., and IV. are necessary for those who purpose to pursue advanced courses in pure mathematics; Course IV. is necessary for those intending to pursue advanced courses in physics and other branches of applied mathematics.

V. DIFFERENTIAL EQUATIONS, based on Johnson's Treatise on Differential Equations. *Tu., at 8; Th., at 9.* PROFESSOR E. B. VAN VLECK.

Course V. is elective for those who have taken Course IV.

VI. ANALYTICAL GEOMETRY OF THREE DIMENSIONS, including especially a study of mathematical models. *Mon., at 10; Fri., at 11.* PROFESSOR J. M. VAN VLECK.

Course VI. is elective for those who have taken Course III., and who take or have taken Course IV.

VII. PROJECTIVE GEOMETRY. *Mon., Fri., at 3.* PROFESSOR E. B. VAN VLECK.

Course VII. is elective for those who have taken Courses I. and III., or I. and IV.

[VIII. HIGHER PLANE CURVES. A course conducted on seminary methods. *Twice a week.* PROFESSOR E. B. VAN VLECK.]

Course VIII. is elective for those who have taken Courses IV. and VII. It is omitted the present year, but will be given in 1897-98.

[IX. THEORY OF FUNCTIONS, based on Fisher and Schwatt's translation of Durège's Theory of Functions. *Twice a week.* PROFESSOR E. B. VAN VLECK.]

Course IX. is elective for those who have taken Course IV. It is omitted the present year, but will be given in 1897-98.

X. THEORY OF GROUPS, based on Cole's translation of Netto's Theory of Substitutions. *Tu., at 9; Th., at 8.* PROFESSOR E. B. VAN VLECK.

Course X. is elective for those who have taken Course IV. It will be omitted in 1897-98.

XI. THEORETICAL MECHANICS. *Mon., Fri., at 9.* PROFESSOR J. M. VAN VLECK.

Course XI. is elective for those who have taken Course IV.

[XII. ASTRONOMY. A general course, requiring only elementary mathematics. *Twice a week.* PROFESSOR J. M. VAN VLECK.]

Course XII. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores. It is omitted the present year, but will be given in 1897-98.

[XIII. SPHERICAL AND PRACTICAL ASTRONOMY, based on Chauvenet's Manual, with practical exercises in the observatory. *Twice a week.* PROFESSOR J. M. VAN VLECK.]

Course XIII. is elective for those who have taken Courses IV. and XII. It is omitted the present year, but will be given in 1897-98.

XIV. ASTRO-PHYSICS, based on Frost's translation of Scheiner's Spectroscopic Astronomy, with practical work in the physical laboratory and the observatory. *Tu., Th., at 11.* PROFESSOR J. M. VAN VLECK.

Course XIV. is elective for those who have taken Course IV.

GRADUATE INSTRUCTION. Courses VII., VIII., IX., XI., XIII., and XIV. are intended for graduate students as well as advanced undergraduates. Course X. is adapted this year to graduates only.

PHYSICS.

PROFESSOR CRAWFORD; PROFESSOR ROSA.

I. ELEMENTARY PHYSICS. A general course, involving only elementary mathematics. Text-book, Carhart's University Physics. *Mon., Tu., Th., Fri., at 10 (first term); Tu., Th., at 10 (second and third terms).* PROFESSOR ROSA.

Course I. is required of Classical and Latin-Scientific Sophomores, and of Scientific Freshmen who enter according to requirements A or B (see pages 28 and 30).

II. ELEMENTARY PRACTICAL PHYSICS. Part I. consists of a series of experiments in Mechanics, Sound, Light, and Heat, such as are described in Hall and Bergen's Text-book of Physics, or in Worthington's Physical Laboratory Practice. The work is done in the physical laboratory under the direction of Professor Crawford. Part II. consists of a series of lecture experiments in electricity and magnetism, to be done in the electrical laboratory under the direction of Professor Rosa. This course is intended for those who are expecting to teach physics, and also as an introductory course for those who expect to take further laboratory work. Two exercises a week, the time required for each exercise being $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (any two of these hours at the discretion of the student).*

Course II. is elective for those who take, or have taken, Course I.

III. ELEMENTARY MECHANICS, involving only elementary mathematics, and with some illustrative experiments. This course takes the place of one given in 1895-96 in the department of mathematics, numbered III. It is designed as an introduction to all the elective courses in physics. *Tu., Th., at 11.* PROFESSOR CRAWFORD.

Course III. is elective for those who take, or have taken, Course I.

[IV. HEAT. Garnett's Elementary Treatise on Heat. *Three times a week (first term).* PROFESSOR CRAWFORD.

ELECTRICITY. S. P. Thompson's Lessons in Electricity and Magnetism, Part II. *Three times a week (second and third terms).* PROFESSOR ROSA.]

Course IV. is elective for those who have taken Course I. It is omitted the present year.

V. SOUND AND LIGHT. Everett's Vibratory Motion and Sound, Glazebrook's Physical Optics, with supplementary lectures on experi-

mental acoustics and on geometrical optics. *Wed., Fri., at 12.* PROFESSOR CRAWFORD.

Course V. is elective for those who have taken Course I.

VI. ELEMENTARY APPLIED ELECTRICITY. In the first half-year S. P. Thompson's *Lessons* is used. In the second half-year the course consists of lectures and lessons from a text-book giving the modern theory of the electro-magnet, and applying it to dynamos, motors, and other electrical apparatus. This course is, in the main, theoretical rather than technical. *Tu., Th., at 12.* PROFESSOR CRAWFORD (*first half-year*), PROFESSOR ROSA (*second half-year*).

Course VI. is elective for those who have taken Course I.

VII. PRACTICAL PHYSICS. The experiments in this course involve careful measurements of the nature indicated in such manuals as those of Kohlrausch, Glazebrook and Shaw, Carhart and Patterson, and Stewart and Gee. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).*

Course VII. is elective for those who have taken Course I.

VIII. PRACTICAL PHYSICS. A continuation of Course VII. In the department of electricity opportunity is afforded for some shop-work, and for extended investigation of the problems connected with transformers and with alternating currents in general. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).*

Course VIII. is elective for those who have taken Course VII.

Students taking Courses IV.-VIII. are advised to take, if they have not already taken, Course IV. in Mathematics.

In Courses VII. and VIII. the work in mechanics, sound, light, and heat is carried on in the physical laboratory in Observatory Hall under Professor Crawford; the work in electricity, in the electrical laboratory under Professor Rosa.

[IX. MATHEMATICAL THEORY OF ELECTRICITY. This course is based upon J. J. Thomson's *Mathematical Theory of Electricity and Magnetism*. The differential and integral calculus is freely used, and an acquaintance with differential equations and analytical geometry of three dimensions is also helpful to those taking the course. *Twice a week.* PROFESSOR ROSA.]

Course IX. is elective for those who have taken the equivalent of the second part of Course IV: or the first part of Course VI. It is omitted the present year.

X. DYNAMO-ELECTRIC MACHINERY. A continuation of Course VI. The theory and use of dynamos and motors of various types, including direct current machines and alternating current machines of the single-phase, two-phase, and poly-phase varieties. *Wed., Fri., at 8.* PROFESSOR ROSA.

Course X. is elective for those who have taken Course IV. or Course VI.

[XI. ALTERNATING CURRENTS OF ELECTRICITY. A course of lectures on the theory of periodic currents, based on Bedell's Alternate Current Transformer. *Twice a week.* PROFESSOR ROSA.]

Course XI. is elective for those who have taken either Course IV. or Course VI. in Physics, and Course IV. in Mathematics. It is omitted the present year.

XII. JOURNAL MEETING. The instructors of the department meet the graduate students and advanced undergraduates for the purpose of reporting and discussing articles from the current journals of general physics and electricity. *Wed., at 10.*

XIII. PHYSICAL SEMINARY. In this course special topics are chosen for more thorough and extended study than is possible in any of the other courses. *Mon., at 11.*

GRADUATE INSTRUCTION. Courses VIII.-XII. are intended for graduates and advanced undergraduates, Course XIII. for graduates only.

CHEMISTRY.

PROFESSOR ATWATER; PROFESSOR BRADLEY; DR. TOWER; DR. BENEDICT.

I. ELEMENTARY CHEMISTRY. This course is devoted to the elementary principles of the science. Each student performs a considerable number of experiments in the laboratory. *Mon., Fri., at 10 (from the beginning of the second term to the mid-year); Mon., Wed., Fri., at 10 (second half-year).* PROFESSORS ATWATER AND BRADLEY.

Course I. is required of Classical and Latin-Scientific Sophomores, and of Scientific Freshmen, who enter according to requirements A or B (see pages 28 and 30).

II. ADVANCED ELEMENTARY CHEMISTRY. A course of lectures on the general principles and some of the applications of chemistry. It is supplementary to Course I. *Wed., Fri., at 11 (first half-year).* PROFESSOR ATWATER.

Course II. is elective for those who have taken Course I.

III. QUALITATIVE ANALYSIS. A practical course in basic, acid, and blow-pipe analysis. Lectures are given on the chemical problems involved in the detection of the more common metals. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week).* PROFESSOR BRADLEY.

Course III. is elective for those who have taken Course I.

IV. QUANTITATIVE ANALYSIS. A practical course in quantitative analysis and special laboratory exercises adapted to the wants of individual students. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week).* PROFESSOR ATWATER AND DR. BENEDICT.

Course IV. is elective for those who take, or have taken, Courses II. and III. It may be elected for part of the year, the quota of hours to be completed for the rest of the year from Course VIII.

V. ORGANIC CHEMISTRY. Lectures and recitations. The principles of organic chemistry, as illustrated by the derivatives of methane and benzene. *Tu., Th., Fri., at 12.* PROFESSOR BRADLEY.

Course V. is elective for those who have taken Course III.

VI. PHYSIOLOGICAL CHEMISTRY. Lectures on selected chapters of physiological chemistry. Special attention is given to the chemistry of the animal body. *Wed., Fri., at 11 (second half-year).* PROFESSOR ATWATER.

Course VI. is elective for those who take, or have taken, Course II. It is desirable that those who elect it should also elect Course V.

VII. ORGANIC CHEMISTRY. A practical course. The first term is devoted to practice in the preparation of compounds of carbon. During the second and third terms students are trained in methods of organic research. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week).* PROFESSOR BRADLEY.

Course VII. is elective for those who have taken Course III. It is desirable that this course be taken in connection with, or after, Course V.

VIII. PHYSIOLOGICAL CHEMISTRY. A laboratory course in the preparation of compounds of interest in physiological chemistry. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week)*. PROFESSOR ATWATER AND DR. BENEDICT.

Course VIII. is elective for those who have taken or are taking Courses V. and VI., and may be elected for the second half-year alone. See note under Course IV.

Courses VI. and VIII. are recommended to those who propose to study medicine.

IX. THEORETICAL CHEMISTRY. A series of lectures upon the origin, development, and present status of the theory of the atom and molecule. *Tu., Th., at 8*. PROFESSOR BRADLEY.

Course IX. is elective for those who have taken Course III.

X. PHYSICAL CHEMISTRY. An elementary course of lectures, devoted principally to the theory of solutions and to electro-chemistry. *Wed., at 8*. DR. TOWER.

Course X. is elective for those who take, or have taken, Course III.

XI. CHEMICAL SEMINARY. A course of instruction and reading in biological chemistry. *Mon., Wed., at 8*. PROFESSOR ATWATER.

Course XI. is elective for those who take, or have taken, Courses V. and VI.

GRADUATE INSTRUCTION. Course XI., although elective for undergraduates, is designed chiefly for graduates. Laboratory courses of research in physical, physiological, and organic chemistry may be arranged.

GEOLOGY.

PROFESSOR RICE.

I. GEOLOGY. Elementary course. Lectures and recitations, on dynamical and chiefly structural geology. *Tu., Th., at 11*.

Course I. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores.

II. GEOLOGY. Advanced course. The first few weeks are occupied with a very brief course of lectures on rocks and their constituent minerals, intended especially to familiarize the students with the rocks and minerals likely to be encountered on the excursions. During the

greater part of the year, informal and conversational recitations in Le Conte's Elements of Geology are held three times a week. Special topics for study, with bibliographical references, are from time to time assigned to each member of the class. Lectures on these topics are given by the members of the class, and are criticized and discussed. The first half-year is devoted to dynamical and structural geology, the second half-year to historical geology and paleontology. Either half of the course may be elected independently. The Saturdays (except in winter) are generally occupied by excursions. The observations made in an excursion are the subject of discussion at the next meeting of the class, one of the members of the class generally giving a report or lecture. *Tu., Wed., Th., at 12 (counting as four times a week for those who elect the whole course or the first half).*

Course II. is elective for those who have taken Course I.; but it is very desirable that students taking this course should also have taken the courses in physical geography, zoölogy, and mineralogy.

III. PHYSICAL GEOGRAPHY. Recitations and lectures, Tarr's Elementary Physical Geography being used as a text-book. *Tu., Wed., Th., at 3 (first term).*

Course III. (in connection with II. Biology) is elective for Classical Sophomores, and is required of Latin-Scientific and Scientific Freshmen.

IV. MINERALOGY. This course comprises three parts:—(1) A course of lectures on crystallography and optical mineralogy, with practical exercises in the study of models and crystals; (2) a course of laboratory work in determinative mineralogy; (3) a course of lectures on descriptive mineralogy. The first part of the course occupies the first half-year, the second part occupies the remainder of the second term, and the third part occupies the third term. The works of Dana and Brush, and Williams' Elements of Crystallography, are used for reference. *Three times a week.*

Course IV. is elective for Classical and Latin-Scientific Juniors and Scientific Sophomores.

GRADUATE INSTRUCTION. Courses II. and IV., although intended primarily for undergraduates, have often been taken by graduate students.

Additional work is provided for graduate students. This may include courses of reading in various branches of geological science, field-work, or laboratory work in mineralogy and lithology.

BIOLOGY.

PROFESSOR CONN.

I. **PHYSIOLOGY.** The instruction is given chiefly by lectures, Martin's Human Body being used as a text-book. Enough anatomy is given to render the physiological discussions intelligible, and enough hygiene to guide to an intelligent care of the body. *Mon., Wed., at 8.*

Course I. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores.

II. **GENERAL BIOLOGY.** This course is devoted to the study of the simpler laws of life, and the relations of animals and plants. Practical study is made of the fern, the earthworm, and the frog, which are used as illustrating the general structure and physiology of plants and animals. This course is designed as an introduction to the studies of botany, zoölogy, and physiology. *Tu., Wed., Th., at 2 (first eight weeks of the second term).*

BOTANY. Practical work in the study of structural and microscopic botany. The course begins with the study of cryptogams, followed by a study of phenogams. The study of cryptogams is by lectures and laboratory work. For the study of phenogams Gray's Lessons is used as a text-book. The last six weeks are devoted to the analysis and description of flowers. *Tu., Wed., Th., at 2 (from March 1 to the end of the year).*

Course II. (in connection with III. Geology) is required of Latin-Scientific and Scientific Freshmen, and is elective for Classical Sophomores.

III. **ZOÖLOGY.** Lectures, recitations, and class dissections. Typical examples, illustrating the various groups of the animal kingdom, are described, attention being given rather to the general laws governing living beings than to the systematic classification of species. The course includes the embryology of the various forms studied, as well as their adult anatomy. *Mon., Th., at 9.*

Course III. is elective for Classical Juniors and for Latin-Scientific and Scientific Sophomores.

IV. **PRACTICAL BIOLOGY.** The design of the courses in practical biology is to furnish opportunity for special biological work along such lines as may be best adapted to the future plans of the students. Those intending to study medicine devote their attention largely to

physiology, histology, and the dissection of some mammal. Those desiring a more general course make a brief examination of various groups of the animal and vegetable kingdoms.

Those electing the study for two years spend the first year in the study of biology in general, making careful study of illustrative types from the different groups of the animal and vegetable kingdoms, such as amoeba, infusoria, hydra, earthworm, bacteria, yeast, mould, lichens, mosses, flowering plant, etc. The laboratory work is planned to illustrate, so far as possible, the principles of biology, comparative anatomy, and embryology. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (twice or three times a week).*

Course IV. is elective for Juniors.

V. PRACTICAL BIOLOGY. Advanced course. The second year is devoted to experiments in physiology and to the study of histology, bacteriology, embryology, and mammalian anatomy. During the last half-year each student pursues some special work assigned by the instructor in charge. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (twice or three times a week).*

Course V. is elective for those who have taken Course IV.

VI. EVOLUTION. A course of lectures and recitations, giving an outline of the general theory of evolution. *Tu., Th., at 8 (first half-year).*

Course VI. is elective for Juniors. It will be omitted in 1897-98.

[VII. BACTERIOLOGY. A course of lectures giving the history of bacteriology from the seventeenth century to the present time. *Once a week.*]

Course VII. is elective for those who take, or have taken, Course IV. It is omitted the present year.

Candidates for special honors in biology are especially recommended to take at least one summer course in the marine laboratory at Cold Spring Harbor.

GRADUATE INSTRUCTION. Courses V. and VI., although elective for undergraduates, are designed also for such graduates as have not already specialized in biology.

Graduate courses of research are provided, consisting mainly of laboratory work, accompanied by collateral reading.

A Journal Club meets weekly to discuss current biological science.

TABULAR STATEMENT

— OF —

UNDERGRADUATE COURSES OF STUDY.

Roman numerals prefixed to the name of any department refer to the courses marked by the same numerals in the foregoing statement of the courses of instruction in that department.

The Arabic numerals indicate the average number of exercises per week for the year in the respective studies.

In addition to those studies which are specified as required, each member of the Freshman class must choose enough elective studies to make the whole number of lectures or recitations not less than fifteen, nor more than seventeen, per week; each member of the Sophomore, Junior, and Senior classes must choose enough elective studies to make his whole number of lectures or recitations not less than fourteen, nor more than seventeen, per week. In making up this quota, studies which count for more than the number of exercises actually held are indicated by numbers added in a parenthesis.

Studies marked by a * are given the current year, but will be omitted next year; those marked by a † are omitted the current year, but will, in most cases, be given next year.

CLASSICAL COURSE.

FRESHMAN YEAR.

REQUIRED.

I. Latin, - - - - 4	I. Mathematics, - - - 4
I. Greek, - - - - 4	I. English Language, - I (2)

ELECTIVE.

I. German, - - - - 3	I. French, - - - - 3
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SOPHOMORE YEAR.

REQUIRED.

II. English Language, } - 2½	I. Physics, } - - - 4½
I. Philosophy, - - }	I. Chemistry, }

ELECTIVE.

II. Latin, - - -	I or 2	Italian, - - -	2
III. Latin, - - -	I or 2	* IV. English Language, -	2
VII. Latin, - - -	I	* V. English Language, -	1
* IX. Latin, - - -	2	II. Mathematics, - - -	1
† X. Latin, - - -	2	III. Mathematics, - - -	2
II. Greek, - - -	2	IV. Mathematics, - - -	3
III. Greek, - - -	1	II. Physics, - - -	2
II. German, - - -	3	III. Physics, - - -	2
IV. German, - - -	1	III. Geology, }	3
II. French, - - -	2	II. Biology, }	
III. French, - - -	1		

Each student must include in his electives one of the following combinations:—1. Not less than one course of two hours per week in each of the three departments of Latin, Greek, and Mathematics. 2. Not less than five hours per week of electives in Mathematics and Physics, both Latin and Greek being dropped. 3. Not less than five hours per week in Latin and Greek, and not less than one course of two hours per week in each of these departments. [Courses IX. and X. Latin do not satisfy requirements 1 and 3.]

JUNIOR YEAR.

REQUIRED.

I. Economics, - - -	1½	II. Philosophy, - - -	1½
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ELECTIVE.

* IV. Latin, - - -	I or 2	I. English Literature, -	3
† V. Latin, - - -	I or 2	† VI. English Language, -	2
† VI. Latin, - - -	I or 2	† VII. English Language, -	1
† VIII. Latin, - - -	1	VIII. English Language, -	1 (2)
* IV. Greek, - - -	3	II. Elocution, - - -	2
† V. Greek, - - -	3	I. History, - - -	1
† VI. Greek, - - -	2	II. History, - - -	1
IX. Greek, - - -	1	III. History, - - -	1
† X. Greek, - - -	1 (2)	IV. History, - - -	1
* XI. Greek, - - -	1 (2)	V. History, - - -	2
III. German, - - -	1	III. Philosophy, - - -	2
V. German, - - -	1 (1½)	IV. Philosophy, - - -	1½
VI. German, - - -	1 (1½)	V. Philosophy, - - -	1
IV. French, - - -	2 (3)	† Science and Religion, -	1

V. Mathematics, - - 2	II. Chemistry, - - 1
VI. Mathematics, - - 2	III. Chemistry, - 2 or 3
VII. Mathematics, - - 2	IV. Chemistry, - 2 or 3
† IX. Mathematics, - - 2	VI. Chemistry, - - 1
* X. Mathematics, - - 2	X. Chemistry, - - 1
XI. Mathematics, - - 2	I. Geology, - - 2
† XII. Mathematics, - 2	IV. Geology, - - 3
XIV. Mathematics, - - 2	I. Biology, - - 2
† IV. Physics, - - 3	III. Biology, - - 2
V. Physics, - - 2	IV. Biology, - - 2 or 3
VI. Physics, - - 2	* VI. Biology, - - 1
VII. Physics, - - 2 or 3	† VII. Biology, - - 1

SENIOR YEAR.

REQUIRED.

Ethics, - - - 1	Evidences, - - - 1
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ELECTIVE.

XI. Latin, - - - 2	VII. Philosophy, - - 1
XII. Latin, - - - 2	VIII. Philosophy, - - 1
XIII. Latin, - - - 2	IX. Philosophy, - - 1
XIV. Latin, - - - 2	X. Philosophy, - - 1 ½
VII. Greek, - - - 3	† Theism, - - ½ (1)
† VIII. Greek, - - 1	† VIII. Mathematics, - 2
* V. French, - - - 1 (2)	† XIII. Mathematics, - 2
† VI. French, - - - 1 (2)	VIII. Physics, - - 2 or 3
* II. English Literature, - 3	† IX. Physics, - - 2
† III. English Literature, 3	X. Physics, - - 2
IV. English Literature, - 1	† XI. Physics, - - 2
VI. History, - - - 1	XII. Physics, - - 1
† II. Economics, - - 2	V. Chemistry, - - 3
III. Economics, - - 2	VII. Chemistry, - 2 or 3
IV. Economics, - - 1	VIII. Chemistry, 1, 1 ½, 2, or 3
V. Economics, - - 1	IX. Chemistry, - - 2
VI. Economics, - - 1	XI. Chemistry, - - 2
VII. Economics, - - 1	II. Geology, 1 ½ (2) or 3 (4)
VIII. Economics, - - 1 (2)	V. Biology, - - 2 or 3
VI. Philosophy, - - 1	

LATIN-SCIENTIFIC COURSE.

FRESHMAN YEAR.

REQUIRED.

I. Latin, - - -	4	III. Geology, }	- -	3
I. Mathematics, - -	4	II. Biology, }	- -	
I. English Language, -	1 (2)			

ELECTIVE.

I. German, - - -	3	I. French, - - -	3
II. German, - - -	3	II. French, - - -	2
IV. German, - - -	1	III. French, - - -	1

SOPHOMORE YEAR.

REQUIRED.

II. English Language, }	2½	I. Physics, }	- -	4½
I. Philosophy, }		I. Chemistry, }	- -	

ELECTIVE.

II. Latin, - - -	1 or 2	IV. French, - - -	2 (3)
III. Latin, - - -	1 or 2	*IV. English Language, -	2
VII. Latin, - - -	1	*V. English Language, -	1
*IX. Latin, - - -	2	II. Mathematics, - - -	1
†X. Latin, - - -	2	III. Mathematics, - - -	2
III. German, - - -	1	IV. Mathematics, - - -	3
V. German, - - -	1 (1½)	II. Physics, - - -	2
VI. German, - - -	1 (1½)	III. Physics, - - -	2
Italian, - - -	2	III. Biology, - - -	2

JUNIOR YEAR.

REQUIRED.

I. Economics, - - -	1½	II. Philosophy, - - -	1½
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ELECTIVE.

*IV. Latin, - - -	1 or 2	I. English Literature, -	3
†V. Latin, - - -	1 or 2	†VI. English Language, -	2
†VI. Latin, - - -	1 or 2	†VII. English Language, -	1
†VIII. Latin, - - -	1	VIII. English Language, -	1 (2)
*V. French, - - -	1 (2)	II. Elocution, - - -	2

I. History, - - -	1	XIV. Mathematics, - - -	2
II. History, - - -	1	† IV. Physics, - - -	3
III. History, - - -	1	V. Physics, - - -	2
IV. History, - - -	1	VI. Physics, - - -	2
V. History, - - -	2	VII. Physics, - - -	2 or 3
III. Philosophy, - - -	2	II. Chemistry, - - -	1
IV. Philosophy, - - -	1½	III. Chemistry, - - -	2 or 3
V. Philosophy, - - -	1	IV. Chemistry, - - -	2 or 3
† Science and Religion, - - -	1	VI. Chemistry, - - -	1
V. Mathematics, - - -	2	X. Chemistry, - - -	1
VI. Mathematics, - - -	2	I. Geology, - - -	2
VII. Mathematics, - - -	2	IV. Geology, - - -	3
† IX. Mathematics, - - -	2	I. Biology, - - -	2
* X. Mathematics, - - -	2	IV. Biology, - - -	2 or 3
XI. Mathematics, - - -	2	* VI. Biology, - - -	1
† XII. Mathematics, - - -	2	† VII. Biology, - - -	1

SENIOR YEAR.

REQUIRED.

Ethics, - - -	1	Evidences, - - -	1
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ELECTIVE.

XI. Latin, - - -	1	VIII. Philosophy, - - -	1
XII. Latin, - - -	2	IX. Philosophy, - - -	1
XIII. Latin, - - -	2	X. Philosophy, - - -	1½
XIV. Latin, - - -	2	† Theism, - - -	½ (1)
† VI. French, - - -	1 (2)	† VIII. Mathematics, - - -	2
* II. English Literature, - - -	3	† XIII. Mathematics, - - -	2
† III. English Literature, - - -	3	VIII. Physics, - - -	2 or 3
IV. English Literature, - - -	1	† IX. Physics, - - -	2
VI. History, - - -	1	X. Physics, - - -	2
† II. Economics, - - -	2	† XI. Physics, - - -	2
III. Economics, - - -	2	XII. Physics, - - -	1
IV. Economics, - - -	1	V. Chemistry, - - -	3
V. Economics, - - -	1	VII. Chemistry, - - -	2 or 3
VI. Economics, - - -	1	VIII. Chemistry, 1, 1½, 2, or 3	
VII. Economics, - - -	1	IX. Chemistry, - - -	2
VIII. Economics, - - -	1 (2)	XI. Chemistry, - - -	2
VI. Philosophy, - - -	1	II. Geology, - 1½ (2) or 3 (4)	
VII. Philosophy, - - -	1	V. Biology, - - -	2 or 3

SCIENTIFIC COURSE.

The following course is laid down for those who enter college according to the requirements marked A, page 28. The modifications of this course for those who enter according to requirements B or C are indicated below.

FRESHMAN YEAR.

REQUIRED.

I. English Language,	- 1 (2)	{ I. German, - - -	3
I. Physics,	{ - - - 4½	{ II. French, - - -	2
I. Chemistry,		or	
III. Geology,	{ - - - 3	{ II. German, - - -	3
II. Biology,		{ I. French, - - -	3

ELECTIVE.

IV. German, - - -	I	IV. Mathematics, - - -	3
III. French, - - -	I	II. Physics, - - -	2
II. Mathematics, - - -	I	III. Physics, - - -	2
III. Mathematics, - - -	2		

SOPHOMORE YEAR.

REQUIRED.

II. German, - - -	3	† Astronomy, - - -	2
or		I. Biology, - - -	2
II. French, - - -	2	I. Geology, - - -	2
II. English Language, {	2½		
I. Philosophy,			

ELECTIVE.

III. German, - - -	I	XIV. Mathematics, - - -	2
V. German, - - -	I (1½)	† IV. Physics, - - -	3
VI. German, - - -	I (1½)	V. Physics, - - -	2
IV. French, - - -	2 (3)	VI. Physics, - - -	2
Italian, - - -	2	VII. Physics, - - -	2 or 3
* IV. English Language, -	2	II. Chemistry, - - -	I
* V. English Language, -	I	III. Chemistry, - - -	2 or 3
V. Mathematics, - - -	2	IV. Chemistry, - - -	2 or 3
VI. Mathematics, - - -	2	VI. Chemistry, - - -	I
VII. Mathematics, - - -	2	X. Chemistry, - - -	I
† IX. Mathematics, - - -	2	IV. Geology, - - -	3
* X. Mathematics, - - -	2	III. Biology, - - -	2
XI. Mathematics, - - -	2		

JUNIOR YEAR.

REQUIRED.

I. Economics, - - -	1½	II. Philosophy, - - -	1½
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ELECTIVE.

* V. French, - - -	1 (2)	† XIII. Mathematics, - - -	2
I. English Literature, - - -	3	VIII. Physics, - - -	2 or 3
† VI. English Language, - - -	2	† IX. Physics, - - -	2
† VII. English Language, - - -	1	X. Physics, - - -	2
VIII. English Language, - - -	1 (2)	† XI. Physics, - - -	2
II. Elocution, - - -	2	XII. Physics, - - -	1
I. History, - - -	1	V. Chemistry, - - -	3
II. History, - - -	1	VII. Chemistry, - - -	2 or 3
III. History, - - -	1	VIII. Chemistry, I, 1½, 2, or 3	
IV. History, - - -	1	IX. Chemistry, - - -	2
V. History, - - -	2	XI. Chemistry, - - -	2
III. Philosophy, - - -	2	II. Geology, - 1½ (2) or 3 (4)	
IV. Philosophy, - - -	1½	IV. Biology, - - -	2 or 3
V. Philosophy, - - -	1	* VI. Biology, - - -	1
† Science and Religion, - - -	1	† VII. Biology, - - -	1
† VIII. Mathematics, - - -	2		

SENIOR YEAR.

REQUIRED.

Ethics, - - - -	1	Evidences, - - - -	1
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ELECTIVE.

† VI. French, - - -	1 (2)	VII. Economics, - - -	1
* II. English Literature, - - -	3	VIII. Economics, - - -	1 (2)
† III. English Literature, - - -	3	VI. Philosophy, - - -	1
IV. English Literature, - - -	1	VII. Philosophy, - - -	1
VI. History, - - -	1	VIII. Philosophy, - - -	1
† II. Economics, - - -	2	IX. Philosophy, - - -	1
III. Economics, - - -	2	X. Philosophy, - - -	1½
IV. Economics, - - -	1	† Theism, - - -	½ (1)
V. Economics, - - -	1	V. Biology, - - -	2 or 3
VI. Economics, - - -	1		

The course for those who enter college according to the set of requirements marked B, on page 30, is the same as the above, with the following modifications:—

I. Mathematics, and either II. French or II. German, are required in Freshman year. II., III., and IV. Mathematics are elective in Sophomore year.

Those who enter according to the requirements marked C, page 30, are required to take I. Mathematics in Freshman year, and for such of the courses I. Physics, I. Chemistry, III. Geology, and II. Biology as they pass on at entrance, they substitute enough elective work to fill out the required quota of exercises per week. Their course in other respects, both as to required and elective studies, is the same as for those who enter according to requirements A, except that their elective studies in Mathematics follow the order just indicated for those who enter according to requirements B.

In addition to the courses indicated in the foregoing tabular statement, exercises in English composition and public speaking are required of all classes, as specified on pages 42, 44, and 45.

DAILY PROGRAM.

The order of lectures and recitations is set forth in the table given on pages 70 and 71. In that table the sign * indicates that an exercise occurs only occasionally, the particular days to be announced by the instructor. Roman numerals preceding the names of certain studies refer to the numbers of the courses as enumerated in the above statement of courses of instruction. Arabic numerals, following the names of certain studies, indicate the sections into which the classes are divided.



[illegible]

[illegible]

GENERAL REGULATIONS.*

QUOTA OF STUDIES.

For students of the three upper classes, the quota of regular studies is, for a minimum, fourteen hours, and for a maximum, seventeen hours of class-room work each week, exclusive of rhetorical exercises. The quota for Freshmen is, for a minimum, fifteen hours, and for a maximum, seventeen hours of class-room work each week, exclusive of declamations. No student is allowed to take less than fourteen hours, nor more than seventeen hours of work each week without special permission from the Faculty.

GRADES.

The general character of the work of each student in each study is indicated by his assignment to one of five grades, grade 1 denoting the highest excellence, and grade 5 denoting failure to pass. The Secretary of the Faculty sends to each student, within three weeks after Commencement, a report of his grades in all the studies which he has taken during the year.

EXAMINATIONS.

Regular examinations are held at the end of each term, and during a specified period in February, according to the times at which the respective studies are completed. No student who has been absent from fifteen per cent. or more of the required exercises in any study can be admitted to examination in that study, except by special permission from the Faculty. Such permission may be accorded when the Faculty are convinced that the absences have not been due to culpable negligence. In the application of this rule, absences from the first or the last exercise of a term, in any study, or consecutive absences including the first or the last exercise, are each reckoned as two absences.

* Copies of the detailed Regulations may be obtained from the Secretary.

To students who, for any reason, have not passed at any regular examination, opportunities for special examinations are given at specified times. If a student shall fail to pass a final examination in any study before that study is taken up by the next succeeding class, he will, unless specially excused therefrom, be required to recite with that class. A student who, at the close of the special examinations held at the beginning of the year, is deficient by an amount equivalent to six or more hours of work per week for a year, is ranked with the next lower class, unless specially excused therefrom by the Faculty.

ENTRANCE CONDITIONS.

A student who fails to make up entrance conditions before the first day of November of the next college year, is then excluded from all recitations until the conditions are made up.

PUBLIC WORSHIP.

Devotional services, at which the attendance of students is required, are held in the College Chapel every morning.

Every student is required to attend the Sunday morning service in some one of the churches in the city.

A limited number of absences from chapel and church are allowed, without the presentation of any excuse.

Voluntary religious services under the direction of the several college classes and of the Young Men's Christian Association are held weekly.

ATHLETIC AND MUSICAL ORGANIZATIONS.

No member of the Senior or Junior class who is deficient in his college work more than three hours per week for a year, and no member of the Sophomore class who is deficient more than four hours per week for a year, is allowed to take part in any athletic contest with another team, except by special permission; and any student becoming notably deficient in his work during the year may be debarred from taking part in such a contest.

Members of the college musical organizations who are deficient as specified in the preceding paragraph, are not allowed to appear in public concerts given by those organizations.

LEAVE OF ABSENCE.

A student who desires excuse from college exercises on account of absence from town must apply to the President for permission to be absent, and, unless the circumstances of the case render it impracticable, such permission must be obtained before the student's departure.

EXPENSES.

The annual charges in the Treasurer's bill are as follows:—

Tuition, - - - - -	\$75 00
Rent and care of half-room, unfurnished, from \$22.00 to \$40.00; average, - - - -	30 00
Steam heat; average for half-room, - - - -	9 00
General repairs and incidentals (lighting, heating, and caring for public rooms, gymnasium fee, etc.), - - - - -	27 00
Use of library and reading-rooms, - - - -	6 00
Total, - - - - -	\$147 00

A fee of five dollars a term is charged to each student in practical physics, and also to each student in practical biology.

Students in practical chemistry are charged the following fees: for organic chemistry, ten; for quantitative analysis, eight and one-third; and for qualitative analysis, five dollars a term. A moderate charge is also made for breakage.

Ladies residing in the Ladies' Hall are charged at the rate of five dollars and a half a week for board and room-rent. Those residing elsewhere in the city are charged two dollars a term for the use of the study-room in the Ladies' Hall.

A diploma fee of five dollars is charged to each student at graduation.

A diploma fee of ten dollars is charged to each graduate student upon promotion to the Master's degree.

The college bills are payable at the commencement of each term; a rebate of one dollar is made on all college bills that are paid on or before the day appointed. Unless the bill for any term is paid, or payment thereof satisfactorily secured, before the commencement of the following term, the student is liable to exclusion from recitations.

No student can have an honorable dismissal, or certificate of progress in his studies, until his bills are paid or payment thereof secured.

A student who is absent from college with permission, on account of sickness, or for other cause, and who retains his place in his class, must pay the full college bills during his absence.

The rooms in the college buildings are rented to students during term time only, and must be vacated at the close of the third term. Students are held accountable for any damage done to their rooms. During the summer vacation the rooms are put in order, and the expense charged to the occupants.

Students are permitted to take lodgings in town, but the places in which they room or board are in all cases subject to the approval of the Faculty. If, however, any of the rooms in the college are thus left vacant, the rent of such rooms may be charged to holders of free scholarships who room in town.

Board may be obtained in private families at prices varying from \$3.75 to \$5.00 a week. A large majority of the students board in clubs, at prices ranging from \$3.00 to \$3.75 a week.

Other expenses incident to college life vary with the habits and circumstances of the student. They are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and health have been compelled to leave the college for want of money.



MATERIAL EQUIPMENT.

LIBRARY AND READING-ROOMS.

THE LIBRARY in Rich Hall contains about forty-six thousand volumes. The library is open every week-day of term time, except Saturdays, from 8 A. M. to 1 P. M., and from 2:30 to 4:30 P. M.; on Saturdays, from 8 A. M. to 12 M., and from 1 P. M. to 4 P. M. Students are allowed direct access to the shelves. Copies of the library rules may be obtained from the librarian.

On the first floor of North College is a reading-room, provided with the principal newspapers, daily and weekly. Another reading-room, on the second floor of Rich Hall, contains the current issues of the most important magazines and reviews, literary and scientific, American and foreign.

ASTRONOMICAL OBSERVATORY.

THE OBSERVATORY is used for purposes of instruction, and is well equipped therefor. Students in astronomy have frequent opportunities to examine the most interesting celestial objects through the telescope; and members of the class in practical astronomy are instructed in the theory and use of all the instruments in the observatory.

The principal instruments are an equatorial of twelve inches aperture, by Alvan Clark & Sons, provided with a filar micrometer and spectroscopes, solar and stellar, two of which have very high dispersive power; a transit instrument of three inches aperture, with collimators of the same aperture, and adapted to use as a zenith telescope; a prime vertical instrument of the same size; sextants; two astronomical clocks; a chronometer; and a chronograph.

LABORATORIES AND APPARATUS.

THE BIOLOGICAL LABORATORY occupies six rooms in Judd Hall, and is capable of accommodating about thirty students. Four rooms are used for general laboratory purposes, of which one is used for

miscellaneous laboratory work, one for physiological work, one for coarse dissection, and one for bacteriological work. The laboratory is equipped with all the apparatus necessary for elementary biological work, being supplied with microscopes, micrometers, water tanks, warm chambers, dissecting apparatus, myographs, bacteriological apparatus, etc., together with abundance of material for anatomical and histological study. The general laboratory room is provided with a type collection illustrating all orders of animals, and students are allowed to use the large museum collection for comparison and direct study.

THE PHYSICAL LABORATORY is equipped with apparatus for the performance of most of the experiments usually undertaken in undergraduate courses; while, in the department of electricity, recent additions of apparatus and machinery afford facilities for instruction in the use of all important electrical instruments and machines. The laboratory work in all departments except electricity is carried on in the rooms on the ground floor of Observatory Hall. The building originally used as a chemical laboratory has been transformed into an electrical laboratory. In the steam-heating plant, located at a convenient distance from the electrical laboratory, is the dynamo room containing a 25 horse-power engine, several dynamos and motors, transformers, and testing instruments.

THE CHEMICAL LABORATORY occupies five rooms in Judd Hall, with store-rooms in the basement. A large working-room on the first floor, with a balance room adjoining, furnishes accommodations for about forty students in analytical chemistry, and smaller rooms afford conveniences for the work of instructors, assistants, and graduate students. A large room in the basement is used for the laboratory work of the required course in elementary chemistry.

THE MECHANICAL LABORATORY occupies the west room in the steam-heating plant, and is in charge of a skilled mechanic. Its equipment includes a large improved 16-inch Hendey-Norton lathe, a Hendey shaper, and two smaller lathes. This laboratory affords facilities not only for the repair of apparatus belonging to the college and the construction of special pieces of new apparatus which may be designed by the professors or by the mechanic, but also for the instruction of students who find a certain degree of mechanical skill necessary to complete their training in the scientific departments.

The rooms of the biological, physical, and mechanical laboratories are lighted by electricity.

MATHEMATICAL MODELS. This collection, the gift of Ebenezer Hill, Esq., of the class of 1870, comprises a complete set of the models made by Brill of Darmstadt, for illustration in the higher branches of mathematics, as well as in mathematical physics and crystallography. They are arranged in a series of cases in a room adjoining the mathematical lecture room in Observatory Hall.

GYMNASIUM.

THE GYMNASIUM is located on the north side of the rear campus and runs parallel to Wyllys Avenue, with the front towards the campus. Its dimensions are 55 by 120 feet.

The basement contains two bowling alleys, a baseball cage, baths, lockers, and toilet rooms.

On the first floor is the main hall of the gymnasium, which affords ample room for every variety of gymnastic exercise, and is fully equipped with the best modern apparatus. Above the main floor there is a running track, suspended from the roof. The director's office, and rooms for baths and lockers are also on the first floor. On the second floor is a committee room for the use of the various athletic organizations, as well as additional baths and lockers. Special attention has been paid to ventilation, drainage, and lighting, and the present structure is believed to contain the best features of a modern gymnasium.

The gymnasium is in charge of a competent director. Exercise in the gymnasium is required of the men of the Freshman and Sophomore classes, three hours a week, from Thanksgiving to the end of the winter term. Elective work in the gymnasium is offered to the men of the Junior and Senior classes.

MUSEUM.

THE MUSEUM OF NATURAL HISTORY AND ETHNOGRAPHY occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with special reference to educational purposes, and are freely accessible to students.

The nucleus of the departments of zoölogy and botany was formed by the Shurtleff collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The Zoölogical Department has received since 1872 most important accessions in liberal donations and exchanges from the Smithsonian Institution, and in collections made by the curators on the coast of New England, through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland have also added large and valuable collections. This department includes about thirteen thousand species. The vertebrata of North America, the marine invertebrata of New England, and the mollusca in general, are especially well represented.

The Herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many specimens from foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the University in 1879, and forms a most valuable accession.

The Mineralogical Department includes more than three hundred species, and a much larger number of varieties. The Franckfort collection, purchased in 1858, contains many choice specimens, mostly from European localities. The minerals of the interesting region in which Middletown is situated, are well represented by collections commenced by the labors of Professor Johnston, and largely increased by accessions within the last few years.

The Geological Department includes collections in lithology, physical geology, and paleontology. A suite of Ward's casts of fossils, presented by Orange Judd, M. A., in 1871, serves an excellent purpose in the work of instruction, affording the student a representation of many remarkable forms of ancient life, actual specimens of which are rare or unique. The collections in paleontology have been very largely increased within the last few years, by the work of the present curator in western Maryland, in the vicinity of Canon City, Col., at Valcour Island, Lake Champlain, in the vicinity of Chattanooga, Tenn., and in the vicinity of Middletown. A choice collection of European fossils, including a number of beautiful specimens from the lithographic limestone of Solenhofen, has been recently received in exchange from the Museum of Munich.

The Ethnographical Department includes a large collection of Indian relics; a valuable collection of pottery from the guano beds of Peru, presented by the late Joseph S. Spinney; an interesting collection of weapons and other objects from the South Sea Islands; and a remarkably full series of objects illustrative of Chinese life and customs, presented by Rev. Marcus L. Taft, D. D. In connection

with the ethnographical department of the museum should be mentioned a collection of coins numbering over 3,000, exclusive of duplicates. Included in this number is a collection of 1,750 Chinese coins, some of which are ancient and very rare, presented by Rev. Marcus L. Taft, D. D. The greater part of the ethnographical collection is at present arranged in the lower hall of the museum, with the collections in mineralogy and geology. The coins (with the exception of a small selection placed on exhibition in the museum) are kept in a case in the library, where they can be seen by students and others on special application. Small collections illustrative of classical archaeology are kept in the seminary rooms.

The following is an approximate statement of the number of specimens in the various departments of the museum:—

DEPARTMENT OF ZOOLOGY.

Mammals—skins mounted and unmounted, - - - -	200
alcoholic, - - - -	50
skulls and skeletons, - - - -	110
Birds—skins mounted and unmounted, - - - -	1,500
nests and eggs, - - - -	600
Reptiles, - - - -	350
Amphibians, - - - -	150
Fishes, - - - -	2,100
Insects—pinned and alcoholic, - - - -	5,250
nests, borings, etc., - - - -	50
Crustacea, - - - -	1,500
Worms, - - - -	1,800
Mollusks—shells, - - - -	90,000
alcoholic, - - - -	4,000
Echinoderms, - - - -	1,000
Coelentera, - - - -	1,700
Sponges and protozoa, - - - -	150

DEPARTMENT OF BOTANY.

Plants in herbarium, - - - -	10,700
Specimens of wood, - - - -	300
Miscellaneous botanical specimens, - - - -	600

DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks, - - - -	13,000
Fossils—Paleozoic, - - - -	9,000
Mesozoic, - - - -	2,400
Cenozoic, - - - -	2,000

DEPARTMENT OF ETHNOGRAPHY.

Miscellaneous ethnographic specimens, - - - -	2,700
Coins, - - - -	5,000

The museum is open to the public on Wednesday and Saturday afternoons.

SCHOLARSHIPS.

TUITION SCHOLARSHIPS.

A limited number of scholarships exempting the holders from the charge for tuition have been established by the Trustees, and are available, at the discretion of the President, for the use of deserving students who need pecuniary assistance.

In addition to these are the following:—

THE JOHN EVANS SCHOLARSHIP.

This scholarship was founded by Mrs. Ann Evans in memory of her husband. The income is about one hundred dollars, and is given annually to that member of the Senior or Junior class who is named by the Board of Trustees, or by some authority to whom they may delegate the nomination. For this scholarship, only such students as are preparing themselves for the ministry, and are already licentiates in the Methodist Episcopal Church, can be candidates.

THE SQUIRE SCHOLARSHIP.

This scholarship was founded by Hon. Watson C. Squire, B. A. In accordance with its provisions, the income of \$5,000 is awarded to that member of the Senior class who passes the best examination in Greek, provided that the successful candidate devote the ensuing year to classical study, in residence in the University, or in connection with travel or residence abroad, at his option, subject to the approval of the Committee on Graduate Instruction.

THE JONES SCHOLARSHIP.

This scholarship was founded by Frank S. Jones, Esq. The income, amounting to fifty dollars, is available, at the discretion of the President, for the use of a deserving student who needs pecuniary assistance.

COLLEGE HONORS.

PRIZES.

The Harrington Prize, the gift of Rev. Edmund Mead Mills, D. D., in memory of Professor C. S. Harrington, is awarded for the best essay on some specified subject in the department of history. The subject for the essay of 1897 is, The Establishment of Religious Liberty in the American Colonies.

The Joseph D. Weeks Prize, the gift of Joseph Dame Weeks, M. A., is awarded for the best essay on some specified subject in the department of economics. The subject for the essay of 1897 is, Present Tendencies toward Socialism. The essays must be left with the head of the department on or before the third Monday in May (May 17).

The Peirce Prize, the gift of Rev. Bradford K. Peirce, D. D., is awarded for excellence in natural science. It will be given in 1897 upon a special examination in the course in geology marked I. in the present catalogue. The subject of the examination in 1898 will be biology; in 1899, chemistry.

The G. Brown Goode Prize, the gift of Mrs. G. Brown Goode, is awarded for the best original investigation in the department of natural history.

No person who has once taken either the Harrington, the Joseph D. Weeks, or the G. Brown Goode Prize, may compete for it again.

The Weeks Prize, the gift of Joseph Dame Weeks, M. A., is awarded for excellence in philosophy. It will be given in 1897 upon an examination in the courses in philosophy marked VI. and VII. in the present catalogue, together with an essay on some selected topic in modern philosophy.

A prize is awarded for excellence in Greek archæology. It will be given in 1897 upon a special examination in the course in Greek marked XI. in the present catalogue.

The Camp Prize, the gift of Samuel T. Camp, Esq., is awarded for excellence in English literature. It will be given in 1897 upon a special examination in the course in English literature marked I. in the present catalogue.

The Johnston Prize, the gift of Rev. David G. Downey, M. A., in memory of Professor John Johnston, is awarded for excellence in electricity. It will be given in 1897 upon a special examination based on the course in physics marked VI. in the present catalogue.

The Spinney Prize, the gift of Mrs. Joseph Spinney, is awarded for excellence in Greek. It will be given in 1897 upon a special examination based upon the first half of the course in Greek marked II. in the present catalogue.

The Phi Beta Kappa Prize is awarded for excellence in Latin. The subject for 1897 is, *The Life and Times of Tiberius*. An outline of the work to be done may be found in the November *Bulletin*.

The Rice Prize, the gift of Rev. William Rice, D. D., is awarded for excellence in mathematics. It will be given in 1897 upon a special examination based upon the course in mathematics marked IV. in the present catalogue.

Students who compete for either the Weeks, the Greek archæology, the Camp, the Johnston, the Spinney, the Phi Beta Kappa, or the Rice Prize must do so during the year in which they regularly pursue the course or courses on which the examination for the prize is based.

The Wise Prize, the gift of Rev. Daniel Wise, D. D., is awarded to that member of the Senior class who excels in moral philosophy.

The Walkley Prize, the gift of Webster R. Walkley, M. A.,—in memoriam David Hart Walkley, graduated June, 1878; died September 16, 1878,—is awarded to that member of the Junior class who excels in psychology.

The Sherman Prize, the gift of Rev. David Sherman, D. D., is awarded this year to that member of the Freshman class who excels in mathematics. It is given upon a special examination based upon the first third and the last third of the course in mathematics marked I. in the present catalogue. The subject of the examination in 1898 will be Latin; in 1899, Greek.

The Ayres Prize, the gift of Daniel Ayres, M. D., LL. D., is awarded to that member of the Freshman class who is found, upon special examination, to have attained the highest excellence in the studies preparatory to admission to the classical course.

The Rich Prize, the gift of Mrs. Isaac Rich, is awarded to that member of the Senior class whose oration at Commencement is deemed best in composition and delivery. Each oration must contain not more than twelve hundred words, and must be left with the Professor of English Literature on or before the second Tuesday preceding Commencement (June 15).

The Olin Prize, the gift of Mrs. Julia M. Olin, is awarded to that member of the Senior class who excels in English composition. The subject for the essay of 1897 is Matthew Arnold. The subject for the essay of 1898 is Thomas Carlyle as a Moral Force. Essays must be left with the Professor of English Literature on or before the first Monday of the third term (April 12).

Two prizes are awarded, as a first and second prize respectively, to the two members of the Junior class who present the best orations at the annual Junior Exhibition. In the award of these prizes, both the composition and the delivery of the orations are considered. The orations must be left with the Professor of the English Language on or before the first Saturday in the third term (April 10).

A prize is awarded to that member of the Junior class who excels in debate.

The Parker Prize, the gift of Rev. John Parker, for excellence in elocution, is awarded to the best speaker in the Junior and Sophomore classes.

A second prize is awarded, in the same classes, for excellence in elocution; but, in the competition for it, selections of a dramatic character, and from poetry, are excluded.

The Hibbard Prize, the gift of Professor Ralph G. Hibbard, M. A., is awarded to that member of the Freshman class who excels in declamation.

The Taylor Prize, the gift of Rev. George Lansing Taylor, D. D., is awarded to that student who presents the best English poem. The poem must be left with the Professor of English Literature before the Senior examination.

The several Committees of Award will withhold any of the prizes, if, in their judgment, none of the exercises presented in competition for them possess the requisite merit.

AWARD OF PRIZES, 1895-96.

The Harrington Prize, to OLIN WESLEY HILL.

Committee of Award:—Max Farrand, Ph. D., of Princeton University.

The Joseph D. Weeks Prize, to JOSEPH WILLARD THOMAS.

Committee of Award:—Professor Charles Henry Hull, Ph. D., of Cornell University.

The Peirce Prize, to ALBERT FRANCIS BLAKESLEE and ALLING PRUDDEN BEARDSLEY.

The G. Brown Goode Prize, to GEORGE WINGATE NORTON.

The Prize for Greek Archaeology, to CHARLES SAMUEL LEAVENWORTH.

The Camp Prize, to CHARLES SAMUEL LEAVENWORTH and BERNARD FERRIS GREENSLET.

The Johnston Prize, to WILLIAM ELI DAVIS STONE.

The Spinney Prize, to EUGENE WYLLYS BURR.

Committee of Award:—John William Henry Walden, Ph. D., of Cambridge, Mass.

The Rice Prize, to ARTHUR WELLINGTON PRICE.

The Wise Prize, to WILLIAM BARRETT CASS.

The Walkley Prize, to FREDERICK WILLIAM ROE.

Committee of Award:—Professor John Andrew Bergström, Ph. D., of the University of Indiana.

The Sherman Prize, to ELIZABETH THOMPSON.

Committee of Award:—John William Henry Walden, Ph. D., of Cambridge, Mass.

The Rich Prize, to GEORGE MILES MOODY.

Committee of Award:—Lee Light Grumbine, M. A., of Lebanon, Pa.; Rev. Charles Edward Davis, M. A., of Lynn, Mass.; George Davis Beattys, LL. B., of New York City.

The Olin Prize, to OLIN WESLEY HILL.

Committee of Award:—Principal Robert Porter Keep, Ph. D., of the Norwich Free Academy.

The First Junior Exhibition Prize, to LEON KURTZ WILLMAN.

Committee of Award:—Hon. Silas Arnold Robinson, of Middletown; Rev. Raymond Maplesden, of Middletown; Charles Spaulding Aldrich, M. A.

The Second Junior Exhibition Prize, to LIZZIE EMMA DUFFORD.

Committee of Award:—Same as for the First Junior Exhibition Prize.

The Prize for Debate, to WILLIAM BARTON PRUNER.

The Parker Prize, to LIZZIE EMMA DUFFORD.

Committee of Award:—Rev. Azel Washburn Hazen, D. D., of Middletown; Rev. Edward Campion Acheson, M. A., of Middletown; Giles Alfred Stuart, M. A., Superintendent of Schools, New Britain.

The Garrison Prize, to HAROLD DENMAN MEEKER.

Committee of Award:—Same as for the Parker Prize.

The Hibbard Prize, to ALBERT ERNEST LEGG.

Committee of Award:—Same as for the Parker Prize.

The Ayres Prize, to BURDETTE ROSS BUCKINGHAM.

APPOINTMENTS FOR JUNIOR EXHIBITION AND COMMENCEMENT.

The speakers at the Junior Exhibition are selected according to the grade in composition and declamation subsequent to the Freshman year. The speakers at Commencement are selected according to the grade in composition and declamation subsequent to the Sophomore year. The number of speakers at each of these public exercises is limited to ten. The speakers last year were:—

AT THE JUNIOR EXHIBITION.—Eva Viola Austin, Burton Hoag Brownell, Lizzie Emma Dufford, William Gill Giffin, John Gowdy, Irville Charles LeCompte, William Barton Pruner, Charles Landon Rockwell, Frederick William Roe, Leon Kurtz Willman.

AT COMMENCEMENT.—William Harry Burgwin, James Henry Fuller, Edith Rochelle Graves, George Miles Moody, Albert Eugene Osborne, Edmund David Searles, Vernon Benjamin Swett.

HONORS IN SCHOLARSHIP.

I. HONORS IN GENERAL SCHOLARSHIP.—Two grades of honor, designated respectively as honors and high honors, are conferred at graduation, based upon the general scholarship of the student throughout his whole course.

An honor in general scholarship is awarded to a student who has received a grade not below third on an aggregate of not less than 63 hours' work, as reckoned in the record of standings, has received first grade on a number of hours' work not less than the part of the 63 hours' work on which he has received third grade, and has not fallen below fourth grade on any study of the course.

A high honor in general scholarship is awarded to a student who has received a grade not below second on an aggregate of not less than 63 hours' work, has received first grade on an aggregate of 50 hours' work, and has not fallen below third grade on any study of the course.

II. PRELIMINARY HONORS.—Preliminary honors are awarded in the departments of classics and mathematics at the end of the Sophomore or of the Junior year, and no student can receive special honors at graduation in Greek, Latin, or mathematics, who has not previously received the corresponding preliminary honors. Notice of candidacy for preliminary honors must be given to the Senior officer of the department, and to the Secretary of the Faculty, as early as the first Monday of the third term of the year in which the candidate proposes to present himself for the special examination (April 12). The case of each candidate is decided by the Faculty. The special regulations concerning the award of preliminary honors are as follows:—

Classics.—1. The candidate must not fall below third grade, and must maintain an average standing of second grade, in the following courses:—I., II., and III. Greek, and I., either II. or III., and VII. Latin.

2. He must also pass with distinction a special examination, held near the end of the academic year, and designed to test (*a*) his ability to translate Greek and Latin into English at sight, and (*b*) his knowledge of Greek and Latin grammar, and of Greek and Roman antiquities, mythology, and political and literary history.

Mathematics.—1. The candidate must not fall below third grade, and must maintain an average standing of second grade, in the required course in mathematics, and in such elective courses, amounting

to not less than five hours a week, as may be approved by the head of the department. Courses II. and IV. are recommended.

2. He must pass with distinction a special examination, held near the end of the academic year, which may cover the entire field of his mathematical knowledge.

III. HONORS IN SPECIAL DEPARTMENTS AT GRADUATION.—Two grades of special honor, designated respectively as honors and high honors, are awarded at graduation in each of the following departments:—

Latin; Greek; German; Romance Languages; English; History; Economics and Social Science; Philosophy; Mathematics; Physics; Chemistry; Geology; Biology.

The conditions upon which special honors in these departments are awarded are as follows:—

(1) The candidate must apply to the officer in charge of the department in which he proposes to take honors, and to the Secretary of the Faculty, not later than the first Monday of the third term in the Junior year (April 12).

(2) He must pass at the regular or special examinations in such studies of the college course as are prescribed for honors in the several departments by the schedule given below; and in such studies he must not fall below third grade, and must maintain an average standing of second grade after the beginning of his Sophomore year, or must receive first grade in all of the prescribed studies which he takes after the beginning of his Junior year.

(3) In addition to the studies regularly prescribed by the schedule below, the candidate must pursue such a course of collateral reading or investigation as is prescribed by the officer in charge of the department, with the approval of a committee of the Faculty. The evidence of his proficiency in this collateral course is given by an examination, oral or written, by a thesis or essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as may be prescribed by the officer of the department, with the approval of a committee of the Faculty. The case of each candidate is decided by the Faculty.

(4) In addition to other requirements, every candidate for special honors is required to pass a *general examination* covering the whole field of study in the department in which the honor is given; this examination is oral, and is conducted in the presence of a committee of the Faculty.

(5) No student is awarded special honors who fails to pass in any study of the last two years of the course.

(6) No examination for special honors is given, and no thesis or other work in preparation for special honors is received, after the second Saturday preceding Commencement (June 19).

The conditions upon which high special honors are awarded are the same as for special honors, with the addition of the following requirements:—

The candidate must receive first grade in all of the prescribed studies which he takes after the beginning of his Sophomore year; and his examinations and other tests must show an exceptionally clear and comprehensive understanding of the studies of the department, and give promise of capacity for independent work.

The following schedule gives the studies required of candidates for special honors in the several departments:—

Latin.—1. Courses I., VII.-X., and XIV. in Latin; and so many of the remaining courses in Latin as will amount in the aggregate to not less than eight hours a week.

2. Courses I. and II. in Greek.

[Candidates for special honors in Latin at graduation are requested to announce their candidacy as early as the beginning of the Junior year.]

Greek.—1. Courses I.-VII., and either Course VIII. or Course XI. in Greek.

2. Course I., and either Course II. or Course III. in Latin.

German.—1. Courses I.-VI. in German.

2. Courses I. and II. in French.

3. Course I. in English Literature, or Course IV. in English Language.

Romance Languages.—1. Courses I.-IV. in French, and the course in Italian.

2. Courses I. and II. in German.

English.—1. The required courses in English, including composition.

2. One of the following groups of elective courses:—

(a.) Courses IV. and VI. in English Language, and Courses I., IV., and either II. or III. in English Literature.

(b.) Courses IV. and VI. in English Language, Course I. in English Literature, and Courses I. and II. in German.

(c.) Courses I., IV., and either II. or III. in English Literature, Course IV. in English Language, and Course II. in History.

(d.) Courses I., IV., and either II. or III. in English Literature, Course III. in History, and any three of the courses in German, French, or Italian.

History.—1. All the courses in History.

2. The required course, and one elective course, in Economics and Social Science.

Economics and Social Science.—1. Any five of the courses in Economics and Social Science.

2. Courses I., III., and V. in History.

Philosophy.—1. All the courses in Philosophy.

2. The course in Ethics.

3. The course in Theism, or Course I. in Biology.

Mathematics.—1. The required course in Mathematics.

2. Elective courses in Mathematics and Astronomy, amounting in the aggregate to not less than fifteen hours a week.

3. Course I. in Physics.

[Prospective candidates for special honors in Mathematics at graduation are advised to take Course IV. in Mathematics in the Sophomore year.]

Physics.—1. Course I. in Physics.

2. Two years of Practical Physics (in at least one of which there shall be three exercises a week).

3. Not less than three of the following courses:—IV., V., VI., IX., X., XI. Physics, and XI. Mathematics.

4. Course I. in Chemistry.

5. Either Course III. in Chemistry or Course IV. in Mathematics.

Chemistry.—1. Courses I.–V. and IX. in Chemistry (three exercises a week being required in Course III.).

2. Course I. in Physics, and one year of Practical Physics; or Course VI. in Chemistry, and Courses I. and IV. in Biology.

Geology.—1. Courses I.–IV. in Geology.

2. The elementary course in Astronomy.

3. Courses II. and III. in Biology.

4. Not less than two of the following courses:—IV. and V. Biology, III. and IV. Chemistry, and V. Physics.

Biology.—1. Courses I.–V. in Biology.

2. Courses I. and III. in Geology.

3. Course III. in Chemistry.

[Candidates for special honors in Biology at graduation are recommended to take at least one summer course in the Marine Laboratory at Cold Spring Harbor.]

In all cases in which the foregoing schedule allows option between two or more courses or groups of courses, the student's selection must be subject to the approval of the head of the department in which he proposes to take honors.

In special cases a candidate for honors may be allowed to substitute other courses for those named in the foregoing schedule, by vote of the Faculty, on recommendation of the head of the department.

An honor of any of the kinds and grades mentioned may be conferred on a student sufficiently meritorious, by vote of the Faculty, even though his record of standing does not completely fulfill the requirements stated above.

The names of those students who take preliminary honors are announced on the Monday preceding Commencement (June 28).

The names of students who take honors at graduation, whether general or special, are printed on the Commencement program.



AWARD OF HONORS, 1895-96.*

PRELIMINARY HONORS.

Mathematics.—Arthur Wellington Price, William Eli Davis Stone.

HONORS IN GENERAL SCHOLARSHIP.

First Grade.—Edith Rochelle Graves, Charles Samuel Leavenworth.

Second Grade.—John Abraham Anderson, Cornelius Roach Berrien, Albert Francis Blakeslee, Mary Annie McKay, George Rowland Munroe, Louis Arthur Norris, George Wingate Norton, Albert Eugene Osborne, James Pullman, Lucy Osborne Searle, Edmund David Searls, Vernon Benjamin Swett, George Leavitt Tirrell, Margaret Neff Williams.

HONORS IN SPECIAL DEPARTMENTS.

Romance Languages.—Anna Josephine Kellogg. Studies in the life and works of Chateaubriand, Lamartine, Alfred de Musset, Victor Hugo, and Balzac. Thesis: "The Religious Element in French Romanticism."

History.—John Abraham Anderson, Olin Wesley Hill, John Foster Searles. Studies in American history. The struggle for neutrality and commercial independence,—1794-1812. Thesis: "The Alien and Sedition Laws."

Philosophy.—Jeanie Louise DeForest. The Philosophy of Berkeley. Thesis: "The Development of Berkeleyanism."

Biology.—George Leavitt Tirrell. Thesis: "Study of the Bacteria in the Milk received at a Students' Club House."

George Wingate Norton. Thesis: "Development of the Medusa of a Campanularian Hydroid."

Lillian Grey Inglis. Thesis: "Histology of the Hepatic Cæca of the Starfish."

* Several of the regulations given on pages 87-89 regarding honors go into effect for the first time the present year.

DEGREES.

The following degrees are conferred by the University, in course:—

BACHELOR OF ARTS.—This degree is conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Classical Course.

BACHELOR OF PHILOSOPHY.—This degree is conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Latin-Scientific Course.

BACHELOR OF SCIENCE.—This degree is conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Scientific Course.

The baccalaureate degree is awarded *summa cum laude* to a student who takes high honors both in general scholarship and in one or more departments; *magna cum laude*, to a student who takes a high honor either in general scholarship or in one or more departments; *cum laude*, to a student who takes an honor either in general scholarship or in one or more departments.

MASTER OF ARTS AND MASTER OF SCIENCE.—The degrees of Master of Arts and Master of Science are conferred in accordance with the following regulations:—

1. The degree of Master of Arts is conferred upon Bachelors of Arts of Wesleyan University, of at least one year's standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued in residence for a period of not less than one year. Said course of study is under the full direction of a Committee of the Faculty on Graduate Instruction, composed of three permanent members with the addition of the instructor in charge of each department in which the candidate pursues work. Evidence of the candidate's proficiency in the approved studies is given by an examination, oral or written, by a thesis or an essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods

combined, as the Committee may prescribe. All such tests of proficiency are under the direction of the Committee, and they report to the Faculty proper candidates for the degree.

2. In the case of Bachelors of Arts of other colleges whose course of study is accepted as sufficient by the Committee on Graduate Instruction, or who pass such additional examinations as the Committee prescribes, the degree of Master of Arts is conferred on the conditions prescribed in the case of Bachelors of Arts of Wesleyan University pursuing a course of study in residence.

3. The degree of Master of Arts is also conferred upon Bachelors of Arts of Wesleyan University, of at least three years' standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued *in absentia*, and equivalent in amount to that prescribed in the case of resident graduate students; and in all other particulars the same regulations hold in the case of non-resident as in the case of resident students. The degree is also conferred upon Bachelors of Arts of Wesleyan University, of two years' standing, at the satisfactory conclusion of a course of study pursued *in absentia*, on the conditions above specified, provided that the candidate has spent the two years in resident study in a non-professional department of some other university.

4. The degree of Master of Science is conferred upon Bachelors of Philosophy and Bachelors of Science, whether of this or of other colleges, under the same conditions which govern in the case of the degree of Master of Arts.

5. A fee of ten dollars is required from each graduate student upon promotion to the Master's degree.

Communications from prospective graduate students regarding the Master's degree should be addressed, in the first instance, to Professor Merrill, the secretary of the Committee on Graduate Instruction.

DEGREES CONFERRED, JUNE, 1896.

At the last Commencement, degrees were conferred as follows:—

THE DEGREE OF B. A. was conferred on:—John Abraham Anderson, Cornelius Roach Berrien, Albert Francis Blakeslee, Francis Cobb Brown, William Harry Burgwin, William Barrett Cass, Henry Loren Clements, Olin Wesley Hill, Charles Samuel Leavenworth, Frank Thaddeus Love, Mary Annie McKay, Thomas Bowie Miller,

Robert Augustus Montgomery, George Miles Moody, Ellis Franklin Nightingale, Louis Arthur Norris, Albert Eugene Osborne, Fanny Bishop Petty, Joseph Adams Puffer, James Pullman, Ernest Scott Quimby, Richard Reed Reynolds, John Foster Searles, Edmund David Searls, Vernon Benjamin Swett, Joseph Willard Thomas, George Dallas Thompson, William Braman Tower, Henry Deiderich Trinkaus, John Henry Ward, Wilbur Abbott Welch, Renwick White.

THE DEGREE OF PH. B. was conferred on:—Augusta Ming Britton, Alfred Burnette Case, Isabella Jamieson Church, James Brooks Comins, Melrose Delmont Davies, Jeanie Louise DeForrest, May Stockbridge Finney, Hart Silas Fuller, James Henry Fuller, Edith Rochelle Graves, Lillian Grey Inglis, William Henry Seward Morey, George Rowland Munroe, Elizabeth Halsey Rogers, Lucy Osborne Searle, Margaret Neff Williams.

THE DEGREE OF B. S. was conferred on:—William Wright Anderson, Christine Kellogg Glover, Albert Jabesh Harris, Anna Josephine Kellogg, Irving Edward Manchester, George Wingate Norton, William Eugene Schimpff, George Leavitt Tirrell.

THE DEGREE OF M. A. on Examination was conferred on:—

Charles Spaulding Aldrich, B. A. (Brown University.) Subjects: Philosophy and English Literature.

Norman Everett Gilbert, B. A. Subjects: Physics and Mathematics. Thesis: "An Experimental Study of the Efficiency of an Alternating Current Transformer."

Albert Emory Loveland, B. A. Subject: Biology. Thesis: "Some Observations of the Number of Bacteria in Dairy Products."

Samuel Bowman Opdyke, B. A. Subject: Middle and Modern English Literature. Theses: "The Rhyme System of Robert of Brunne's Chronicle;" "The History of the Heroic Couplet from 1600 to 1725, as Illustrating Changes in Poetic Ideals."

THE DEGREE OF M. S. on Examination was conferred on:—

William Merrill Esten, B. S. Subject: Biology. Thesis: "The Determination of Acid Organisms in Milk."

Robert Elmer Hendershot, B. S. Subject: Mathematics. Thesis: "On the Mathematical Theory of the Pendulum."

Rupert Henry Hopkins, B. S. Subjects: Physics and Mathematics. Thesis: "An Experimental Determination of the Forms of Alternating Current Waves."

THE DEGREE OF M. S., *honoris causa*, was conferred on:—Charles Wesley Stiles, Ph. D., (class of 1889), of Washington, D. C.

THE DEGREE OF D. D. was conferred on:—Rev. Stephen Olin Benton, of Fall River, Mass.; Rev. Frank Bruce Lynch, M. A., of Philadelphia, Pa.; Rev. Warren Lanning Hoagland, M. A., of Passaic, N. J.; Rev. William Lonsdale Watkinson, M. A., of London, England.

THE DEGREE OF LL. D. was conferred on:—Professor John Williams White, Ph. D., of Harvard University.



ALUMNI RECORD.

ALUMNI RECORD.—Through the liberality of Orange Judd, M. A., a Biographical Record of the Alumni of the University was published in 1869. A third edition of this Record, revised and corrected, was issued in June, 1883.

This edition contains not only the record of Alumni, revised and corrected to the date of publication, but also a list of all former students not graduates, with their residences, and such other information with reference to them as the most thorough search could obtain. It also includes a Bibliographical Record, showing all the more important literary and scientific work done by Alumni and members of the Faculty. Copies of this edition may be had on application to the librarian, W. J. James. The price of the Record when sent by mail is one dollar.

A second edition of the Supplement to the Alumni Record, containing an alphabetical list of the living graduates, with their honorary and professional degrees, their occupations, and their addresses, was published in August, 1895.

Information in regard to changes of address of Alumni or in regard to any other facts suitable for future editions of the Record, is earnestly solicited. All who can furnish such information are requested to communicate with Professor F. W. Nicolson.

NECROLOGY.—A list of deceased graduates of the University is published annually in the *Bulletin*. All persons who can supply information appropriate to future lists, are urgently requested to communicate the same to Professor F. W. Nicolson.

EMPLOYMENT BUREAU.—An employment bureau was recently established in the office of the Secretary of the Faculty, for the

purpose of securing positions as teachers for graduates of the college, and to provide opportunities for undergraduates to earn money towards paying their college expenses, by work in Middletown during term time, or in Middletown or elsewhere during the summer vacation. The success so far attained is such as fully to justify the establishment of the bureau.

Those who wish to avail themselves of the opportunity thus offered are invited to register; and the Alumni and friends of the college are urgently requested to inform the Secretary of any vacancy coming to their notice which might be filled by a Wesleyan student or graduate. No fees are charged.



CALENDAR.



1896.

- Oct. 1, Thursday—First Term began.
 Nov. 25-29, Thanksgiving Recess.
 Dec. 23, Wednesday—First Term will close.

1897.

CHRISTMAS RECESS.

- Jan. 5, Tuesday—Second Term will begin.
 Jan. 28, Thursday—Day of Prayer for Colleges.
 Feb. 12-20, Mid-year Examination.
 Feb. 22, Monday—Washington's Birthday.
 Mar. 31, Wednesday—Second Term will close.

SPRING RECESS.

- April 6, Tuesday—Third Term will begin.
 April 10, Saturday—Last day for presenting Junior Exhibition Essays.
 April 12, Monday—Last day for presenting Olin Prize Essays.
 April 12, Monday—Last day for presenting applications for Preliminary and Special Honors.
 April 22, Thursday—Junior Exhibition.
 May 17, Monday—Last day for presenting Joseph D. Weeks Prize Essays.
 June 3, Thursday—Prize Debate.
 June 7, Monday—Senior Examination will commence.
 June 14, Monday—Annual Examination will commence.
 June 15, Tuesday—Last day for presenting Rich Prize Essays.
 June 19, Saturday—Last day for receiving Special Honor Theses, and for Special Honor Examinations.
 June 25, Friday—Prize Declamations.
 June 27, Sunday morning—Baccalaureate Sermon.
 June 27, Sunday evening—University Sermon.
 June 28, Monday—Announcement of Award of Prizes.
 June 28, Monday—Class Day.
 June 28, Monday evening—Meeting of the Board of Trustees.

- June 29, Tuesday—Business Meeting of the Alumni Association.
June 29, Tuesday—Reunion of Classes of 1847, '72, '82, '87,
'90, '94.
June 29, Tuesday—Anniversaries of the Literary Societies.
June 30, The last Wednesday of June—COMMENCEMENT.
July 1, Thursday—Examination of candidates for admission
will begin.

VACATION OF THIRTEEN WEEKS.

- Sept. 28, Tuesday—Special Examination for students deficient
at Annual Examination.
Sept. 29, Wednesday—Examination of candidates for admission
will begin.
Sept. 30, Thursday—First Term will begin.



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CALENDAR, 1897

1898

JANUARY

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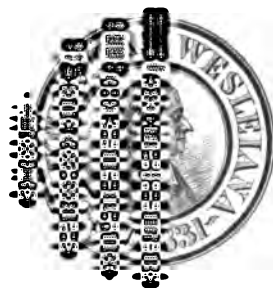
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CATALOGUE

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1897-98

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§ Edmund Wilson Frain,	<i>Williamsport, Pa.</i>	248 High St.
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† Carle Augustus Graves,	<i>New Britain.</i>	B. Θ . II. House.
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† Philip Bovier Hawk,	<i>East Branch, N. Y.</i>	Δ . K. E. House.
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Charlotte Benson Frost,	<i>Middletown.</i>	299 College St.
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§ Arthur Frederick Goodrich,	<i>New Britain.</i>	Δ. K. E. House.
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Walter Dudley Yates,	<i>Rockville.</i>	30 N. C.

SOPHOMORE CLASS.

NAMES.	RESIDENCES.	ROOMS.
§ Curtiss Stowe Bacon,	<i>Middletown.</i>	<i>433 Main St.</i>
Harvey Lee Bagenstose,	<i>Mahanoy City, Pa.</i>	<i>Φ. P. House.</i>
Harry Torsey Baker,	<i>Rockland, Me.</i>	<i>Φ. P. House.</i>
Frank Asa Berry,	<i>Danbury.</i>	<i>37 N. C.</i>
Charles Billington,	<i>New Bedford, Mass.</i>	<i>X. Y. Lodge.</i>
Dora Isabel Blackman,	<i>Middletown.</i>	<i>107 Cross St.</i>
Emil Harry Blichfeldt,	<i>Saratoga Springs, N. Y.</i>	<i>51 Wyllys Ave.</i>
John Rockefeller Bowman,	<i>Austin, Pa.</i>	<i>19 N. C.</i>
§ Alice Brigham,	<i>Hartford.</i>	<i>167 High St.</i>
Arthur Leonard Brown,	<i>Round Lake, N. Y.</i>	<i>Φ. P. House.</i>
† Arthur Wesley Browne,	<i>Brooklyn, N. Y.</i>	<i>47 N. C.</i>
Burdette Ross Buckingham,	<i>Riverhead, N. Y.</i>	<i>53 N. C.</i>
§ John Smith Burley,	<i>Tuckahoe, N. J.</i>	<i>62 N. C.</i>
† Rollin Hilliard Burr,	<i>Rocky Hill.</i>	<i>66 Hamlin St.</i>
Horace Durar Byrnes,	<i>New York, N. Y.</i>	<i>37 N. C.</i>
§ Edgerton Samuel Carey,	<i>Mt. Pleasant, Ireland.</i>	<i>Φ. P. House.</i>
§ Mae Huse Chapman,	<i>Middletown.</i>	<i>86 College St.</i>
Francis Robinson Clark,	<i>Strong, Me.</i>	<i>4 N. C.</i>
Harriet Dorrance Clary,	<i>New Britain.</i>	<i>167 High St.</i>
§ Christabel May Coe,	<i>Middlefield.</i>	<i>167 High St.</i>
§ Cyrus Leroy Corliss,	<i>Plymouth, N. H.</i>	<i>Φ. P. House.</i>
§ Elizabeth Anna Coughlin,	<i>Middletown.</i>	<i>563 High St.</i>
§ Gracia Blair Darrow,	<i>West Eaton, N. Y.</i>	<i>274 High St.</i>
† Ashton Weymouth Davis,	<i>Hackettstown, N. J.</i>	<i>250 High St.</i>
Charles Harrison Davis,	<i>Lynn, Mass.</i>	<i>Y. Y. House.</i>
Henry Loranus Davis,	<i>Lynn, Mass.</i>	<i>Y. Y. House.</i>
Walter Fenno Dearborn,	<i>Middletown.</i>	<i>Pine St.</i>
Gaylord William Douglass,	<i>Concord, N. H.</i>	<i>282 William St.</i>
§ Elliott Minton Eldredge,	<i>Brooklyn, N. Y.</i>	<i>250 High St.</i>
Charles Alton Ellis,	<i>Guilford, Me.</i>	<i>17 N. C.</i>
Leroy Connell Floyd, Jr.,	<i>Binghamton, N. Y.</i>	<i>B. Θ. Π. House.</i>
§ Grace Leona Foote,	<i>Middletown.</i>	<i>22 College Pl.</i>
† David Austin Fox, Jr.,	<i>Clinton.</i>	<i>250 High St.</i>
Philip Eugene Garrison,	<i>Cranbury, N. J.</i>	<i>A. Δ. Φ. House.</i>

NAMES.	RESIDENCES.	ROOMS.
Duncan McPherson Genns,	<i>Wood Haven, N. Y.</i>	14 N. C.
† Earl Weston Gooding,	<i>Plymouth, Mass.</i>	35 <i>Lawm Ave.</i>
Leroy Albert Howland,	<i>New Bedford, Mass.</i>	53 N. C.
§ Grace Maude Hulse,	<i>Amityville, N. Y.</i>	136 <i>High St.</i>
Jesse Lyman Hurlbut, Jr.,	<i>New York, N. Y.</i>	54 N. C.
§ Henry Andrews Ingraham,	<i>Brooklyn, N. Y.</i>	238 <i>High St.</i>
§ Charles Earl Johnston,	<i>Westmoreland, N. Y.</i>	B. Θ. II. <i>House.</i>
§ Robert Wesley Langford,	<i>Pittston, Pa.</i>	B. Θ. II. <i>House.</i>
James Melvin Lee,	<i>Plains, Pa.</i>	X. Ψ. <i>Lodge.</i>
† Charles William McMahon,	<i>Middletown.</i>	171 <i>High St.</i>
Robert Cecil McMahon,	<i>Middletown.</i>	171 <i>High St.</i>
Edward McMillen,	<i>Newton, N. J.</i>	Φ. P. <i>House.</i>
Walter MacNaughten,	<i>Montclair, N. J.</i>	282 <i>William St.</i>
Howard Virgil Mattoon,	<i>Van Etten, N. Y.</i>	18 N. C.
Edgar Augustine Miller, Jr.,	<i>Philadelphia, Pa.</i>	48 N. C.
§ Robert Edwin Nivison,	<i>Dalton, Mass.</i>	10 N. C.
§ May Tomlinson Palmer,	<i>Shelton.</i>	274 <i>High St.</i>
Percy Allen Parsons,	<i>Boston, Mass.</i>	238 <i>High St.</i>
Ralph Edgar Pearce,	<i>Wilkes-Barre, Pa.</i>	X. Ψ. <i>Lodge.</i>
George De Champ Peterson,	<i>Kent's Hill, Me.</i>	4 N. C.
§ Anna Agnes Prior,	<i>Middletown.</i>	102 <i>Union St.</i>
Gordon Wesley Race,	<i>Raceville, N. Y.</i>	B. Θ. II. <i>House.</i>
Frank Harder Ryder,	<i>Cobleskill, N. Y.</i>	X. Ψ. <i>Lodge.</i>
§ Ralph W. Rymer,	<i>Jermyn, Pa.</i>	44 N. C.
§ John Stanley Sanford,	<i>Ocean Grove, N. J.</i>	A. Δ. Φ. <i>House.</i>
Catherine Mae Simonton,	<i>Winterport, Me.</i>	274 <i>High St.</i>
§ Arthur Bourne Smith,	<i>Lockwood, N. Y.</i>	256 <i>High St.</i>
Burchard Hauschild Smith,	<i>Montpelier, Vt.</i>	301 <i>College St.</i>
§ Percie Janet Smith,	<i>Rockfall.</i>	167 <i>High St.</i>
Clarence Hathorne Staples,	<i>East Boston, Mass.</i>	19 N. C.
§ Isaac Crawford Sutton,	<i>Philadelphia, Pa.</i>	58 <i>Wyllys Ave.</i>
Irving Bloom Thomas,	<i>Middletown.</i>	47 N. C.
Winthrop Tirrell,	<i>New Bedford, Mass.</i>	250 <i>High St.</i>
Payson Jackson Treat,	<i>New York, N. Y.</i>	A. Δ. Φ. <i>House.</i>
§ Jane Frances Walsh,	<i>Middletown.</i>	160 <i>Lincoln St.</i>
David T. Weidner,	<i>Birdsboro, Pa.</i>	14 N. C.
Emory Hammond Westlake,	<i>Dallas, Pa.</i>	44 N. C.
§ Daniel Denison Whedon,	<i>Ridgefield.</i>	X. Ψ. <i>Lodge.</i>
Walter Browne Wilson,	<i>Freeport, N. Y.</i>	250 <i>High St.</i>
Frank Everett Wing,	<i>Waterville, Me.</i>	301 <i>College St.</i>
John Edwin Wing,	<i>Waterville, Me.</i>	301 <i>College St.</i>
§ Josiah Oliver Wolcott,	<i>Dover, Del.</i>	B. Θ. II. <i>House.</i>

FRESHMAN CLASS.

NAMES.	RESIDENCES.	ROOMS.
John Edward Adams,	<i>Hampden, Mass.</i>	61 N. C.
Susan Mary Adams,	<i>Westchester.</i>	<i>Lawn Ave.</i>
§ William Edward Adams,	<i>Westchester.</i>	11 N. C.
† Walter Morgan Anderson,	<i>Clinton.</i>	A. Δ. Φ. House.
† Alfred Clarence Arnold,	<i>St. Johnsbury, Vt.</i>	189 Main St.
† Walter Stanley Baker,	<i>Concord, N. H.</i>	61 N. C.
† Mabelle Wilcox Barnes,	<i>East Berlin.</i>	274 High St.
Edwin Nathaniel Bartlett,	<i>Guilford.</i>	Φ. P. House.
§ Grace Alida Beebe,	<i>New Haven.</i>	274 High St.
John Melson Betts,	<i>Dover, Del.</i>	15 N. C.
George Ellsworth Bishop,	<i>Brooklyn, N. Y.</i>	88 Wyllys Ave.
Wallace Selden Boardman,	<i>Cromwell.</i>	256 High St.
Lewis F. Bowdish,	<i>New York, N. Y.</i>	43 N. C.
† Frederick William Broatch,	<i>Middletown.</i>	155 S. Main St.
§ Annie Strong Brown,	<i>Middletown.</i>	Cottage Ave.
§ Julian Everett Burr,	<i>Thomaston.</i>	B. Θ. Π. House.
Herman August Buschek,	<i>Rochester, N. H.</i>	36 N. C.
Burton Howard Camp,	<i>Hartford.</i>	55 N. C.
James Irving Chapin,	<i>Philadelphia, Pa.</i>	88 Wyllys Ave.
§ May Weir Church,	<i>Middletown.</i>	South Farms.
Franklin Halstead Clapp,	<i>New York, N. Y.</i>	51 N. C.
Thomas James Clark, Jr.,	<i>Paterson, N. J.</i>	48 N. C.
Alfred Samuel Clayton,	<i>Frankfort, N. Y.</i>	12 N. C.
William Harry Clemons,	<i>Hartford.</i>	55 N. C.
Thomas Sparks Cline,	<i>Wenonah, N. J.</i>	64 N. C.
† Luther Gardner Coburn,	<i>Newport Centre, Vt.</i>	51 Wyllys Ave.
Albert Lloyd Cooper,	<i>Hawley, Pa.</i>	29 N. C.
† Roberta Corscaden,	<i>Philadelphia, Pa.</i>	274 High St.
Perl Burke Daniels,	<i>Woodbury, Vt.</i>	51 Wyllys Ave.
† John Washington Davitt,	<i>Troy, N. Y.</i>	215 High St.
John A. Decker, Jr.,	<i>Hartford.</i>	57 N. C.
† Harriman Cleaveland Dodd,	<i>Middletown.</i>	Burr Ave.
† Clyde Roy Dodds,	<i>Reading, Pa.</i>	60 N. C.

NAMES.	RESIDENCES.	ROOMS.
¾ Solon Arthur Dodds,	<i>Reading, Pa.</i>	60 N. C.
¾ Richard Washburn Douglass,	<i>Plymouth, Mass.</i>	35 <i>Lawn Ave.</i>
¾ Roswell Leon Douglass,	<i>Plymouth, Mass.</i>	35 <i>Lawn Ave.</i>
† Archibald St. John Downey,	<i>Flushing, N. Y.</i>	64 <i>Church St.</i>
† Charles Sherman Farnham,	<i>Collinsville.</i>	13 N. C.
William Ellis French,	<i>Templeton, Mass.</i>	33 N. C.
Luther Hayward Frost,	<i>Potsdam, N. Y.</i>	35 N. C.
Albert Smith Gordon,	<i>Hazardville.</i>	B. O. II. <i>House.</i>
Isaac Newton Gorman,	<i>Nanticoke, Pa.</i>	20 N. C.
Emmett Wells Gould,	<i>Goulds, N. Y.</i>	29 N. C.
¾ Edwin Forrest Hann,	<i>Camden, N. J.</i>	62 N. C.
Lee Foster Hartman,	<i>Fort Wayne, Ind.</i>	301 <i>College St.</i>
¾ Ilga Frances Harvey,	<i>Middletown.</i>	149 <i>Church St.</i>
John Greenleaf Webb Havens,	<i>Tom's River, N. J.</i>	64 N. C.
Walter Nickerson Hill,	<i>Newport, R. I.</i>	248 <i>High St.</i>
† Robert Lavater Hirschfeld,	<i>Meriden.</i>	52 N. C.
¾ Louis Harman Hitchler,	<i>Wilkes-Barre, Pa.</i>	6 N. C.
¾ Stephen Benjamin Hoyt, Jr.,	<i>New Canaan.</i>	13 N. C.
Marie Rosalie von Essen Hubert,	<i>New Britain.</i>	274 <i>High St.</i>
Cleveland Archer Ives,	<i>Meriden.</i>	52 N. C.
Roy Humiston Jones,	<i>Brooklyn, N. Y.</i>	292 <i>William St.</i>
† Thomas Armsby Kelley,	<i>Dorchester, Mass.</i>	58 N. C.
¾ May Elizabeth Kenneally,	<i>Middletown.</i>	275 <i>Main St.</i>
Herbert Van Devanter Lacey,	<i>Cheyenne, Wyo.</i>	64 <i>Church St.</i>
† Harry Clifford Lane,	<i>Meriden.</i>	246 <i>High St.</i>
George Francis Lee,	<i>Brooklyn, N. Y.</i>	31 N. C.
Lester Edward Lynde,	<i>Westminster, Mass.</i>	33 N. C.
Dudley Matthews,	<i>Paterson, N. J.</i>	Φ. P. <i>House.</i>
Arthur John Meredith,	<i>Everett, Mass.</i>	15 N. C.
¾ Robert James Merriam,	<i>Meriden.</i>	38 N. C.
† Lena Zerviah Newton,	<i>Woodbridge.</i>	167 <i>High St.</i>
William Percival Ogden,	<i>Bristol.</i>	X. Ψ. <i>Lodge.</i>
Dudley Baldwin Palmer,	<i>New York, N. Y.</i>	59 N. C.
† Richard Granville Povey,	<i>New London.</i>	6 N. C.
John Harvey Putnam,	<i>Amoskeag, N. H.</i>	B. O. II. <i>House.</i>
¾ Walter J. Randolph,	<i>Cohocton, N. Y.</i>	17 <i>Cross St.</i>
¾ Alice Jennette Raymond,	<i>Middletown.</i>	311 <i>High St.</i>
William Chauncey Rice,	<i>N. Cambridge, Mass.</i>	197 <i>High St.</i>

NAMES.	RESIDENCES.	ROOMS.
John Brockway Rippere,	<i>Torrington.</i>	X. Y. <i>Lodge.</i>
† Edith Ladna Risley,	<i>Hartford.</i>	274 <i>High St.</i>
William Milby Robinson,	<i>Hackettstown, N. J.</i>	B. O. II. <i>House.</i>
§ Herbert Holden Sawyer,	<i>Auburndale, Mass.</i>	248 <i>High St.</i>
John Randle Schaffer,	<i>Newark, N. J.</i>	49 N. C.
† Frank Peter Scheffer,	<i>Meriden.</i>	63 N. C.
† Charlotte Maria Seabury,	<i>Little Compton, R. I.</i>	274 <i>High St.</i>
Charles Halberton Seward,	<i>West Pittston, Pa.</i>	20 N. C.
† Charles Shepard,	<i>Grand Rapids, Mich.</i>	36 <i>Pleasant St.</i>
Nathaniel Perry Sippelle,	<i>Mattawamkeag, Me.</i>	25 N. C.
§ Carl Curtis Stickney,	<i>Canaan, N. H.</i>	282 <i>William St.</i>
Arthur Newman Tasker,	<i>Washington, D. C.</i>	49 N. C.
Charles Horton Terry,	<i>Brooklyn, N. Y.</i>	31 N. C.
Walter Raymond Terry,	<i>Patchogue, N. Y.</i>	51 N. C.
Robert Franklin Todd,	<i>Groton, Vt.</i>	51 <i>Wyllys Ave.</i>
James Herbert Tuckley,	<i>Springfield, Mass.</i>	197 <i>High St.</i>
§ James Alonzo Turner,	<i>Bridgeport.</i>	37 N. C.
Fredrika Van Benschoten,	<i>Middletown.</i>	231 <i>High St.</i>
† Frank Bertram Wade,	<i>New Bedford, Mass.</i>	35 N. C.
§ Herbert Cooper Ward,	<i>Glidden, Iowa.</i>	43 N. C.
† Frank Augustus Wesley,	<i>Cottage City, Mass.</i>	58 N. C.
Grace Raymond White,	<i>Middletown.</i>	248 <i>High St.</i>
§ Isaac Henry Wight,	<i>Milan, N. H.</i>	25 N. C.
§ Julia Myra Wilcox,	<i>Westfield.</i>	274 <i>High St.</i>
Robert Earl Wilcox,	<i>Camden, N. Y.</i>	12 N. C.
Joseph Clark Winans,	<i>Belleville, N. J.</i>	36 N. C.
Frederick Amos Woodworth,	<i>Braintree, Mass.</i>	57 N. C.
Ernest Albert Yarrow,	<i>Fall River, Mass.</i>	Φ. P. <i>House.</i>
Theodore Basil Young,	<i>Andover, N. J.</i>	Φ. P. <i>House.</i>

SPECIAL STUDENTS.

NAMES.	RESIDENCES.	ROOMS.
Annie Gray Birdsey,	<i>Middletown.</i>	274 <i>High St.</i>
Frank William George,	<i>Bristol, N. H.</i>	B. O. II. <i>House.</i>
Hale Powers,	<i>Middletown, O.</i>	B. O. II. <i>House.</i>

SUMMARY.

[illegible]

ABBREVIATIONS.

[illegible]

GENERAL STATEMENT.

COURSES OF STUDY.—The College presents to its undergraduate students the option of three parallel courses of study, each extending through four years, named respectively the Classical Course, the Latin-Scientific Course, and the Scientific Course.

In the Classical Course, the study of Latin and Greek forms a large part of the required work of the first year, and must be continued during the second year unless the student elects a very considerable proportion of his studies from the departments of mathematics and physics. In the Latin-Scientific Course, Greek is omitted, and, in the Scientific Course, both Greek and Latin are omitted, in order to give more extended opportunity for the study of modern languages, science, and literature.

REQUIRED AND ELECTIVE STUDIES.—In each of the foregoing courses, nearly all the studies of the first year are required. In the three remaining years, the amount of required work is progressively diminished, the student being allowed to complete his quota by selecting from a wide range of elective studies. He is expected, however, to regulate his choice so that his electives will together form an harmonious and symmetrical course of study; and in no case is a student allowed to select a study which he is not, in the judgment of his instructors, qualified to pursue with advantage.

SPECIAL COURSES.—Students who do not desire to complete any one of the foregoing courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood that this provision is intended for the benefit, not

of those students who are incompetent to take one of the regular courses, but of those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended courses of study in particular departments. Such special students will be expected to attend all exercises assigned them, and will be subject to all the general rules of the college.

GRADUATE STUDIES.—Extended instruction is given to those who wish to pursue graduate courses of study in any of the departments. Further information concerning such graduate courses is given in the reports of the several departments on Courses of Instruction, and also in connection with the statement of conditions for the degrees of Master of Arts and Master of Science.



TERMS OF ADMISSION.*

CLASSICAL COURSE.

Candidates for admission to the Classical Course are examined in the following subjects:—

- LATIN.—1. Latin grammar, including prosody.
2. Caesar,—Gallic War, books I.—IV.
3. Cicero,—the four orations against Catiline, and those for Archias and for the Manilian Law.
4. Vergil,—Eclogues, and Æneid, books I.—VI.
5. Translation at sight into English of passages of Latin, both prose and poetry, of average difficulty.
6. Translation into Latin of simple English sentences and of easy narrative passages based on the prose authors read.

With the passages set under headings 5 and 6, a vocabulary of the less common words is supplied.

In place of the requirements specified under headings 2, 3, and 4, equivalent readings will be accepted, but, in general, prose will not be accepted instead of poetry, nor *vice versa*.

The Roman system of pronunciation is exclusively used in all the Latin work of the college course, and it is expected that applicants for admission will be well versed in it. A brief scheme of approximately equivalent sounds in English is here given: *a* is pronounced as in *father*, *e* as in *they*, *i* as in *machine*, *o* as in *tone*, *u* as *oo* in *boot* (the long and short vowels have the same quality of sound, but the latter are pronounced in less time than the former); *æ* as *ay*, *au* as *ou* in *out*, *ei* as in *eight*, *eu* as in *feud*, *oe* as *oi* in *boil*, *ui* as in *quit*; *c* and *g* always as in *come* and *get*, *s* always as in *sin*, *j* as *i* in *valiant*, *v* as *w* in *wit*, *y* as French *u* or German *ü*, *x* as *ks*, *z* as *ds*, *r* always trilled, *ch*, *ph*, and *th* as *c*, *p*, and *t* with the aspiration following, as in *hack-hire*, *haphazard*, *boat-hook*; other consonants as in English.

It is urged that candidates be well drilled in the observance of the laws of quantity in oral reading, especially in Vergil and Ovid.

* For announcement of prize for excellence in the studies preparatory mission, see "Ayres Prize."

GREEK.—1. Greek grammar, including prosody,—Hadley-Allen's, or Goodwin's.

2. Xenophon,—Anabasis, books I.—IV.

3. Homer,—Iliad, books I.—III.

4. Translation at sight of one or more passages from Xenophon.

5. Translation into Greek of easy narrative passages based on the required books of the Anabasis.

ANCIENT HISTORY AND GEOGRAPHY.—1. History of Rome to the death of Marcus Aurelius.

2. History of Greece to the capture of Corinth, 146 B. C.

3. Ancient geography.

The following books are recommended as the basis of instruction in ancient history and geography:—

1. Allen's Short History of the Roman People (Part II. of Myers and Allen's Ancient History), pp. 1-275.

2. Myers' Eastern Nations and Greece (Part I. of Myers' and of Myers and Allen's Ancient History), beginning with Section II.

3. Tozer's Primer of Ancient Geography.

Familiarity with map drawing is also especially desirable.

MATHEMATICS.—1. Algebra,—Fundamental operations, factors, common divisors and multiples, fractions, negative quantities and the interpretation of negative results, powers and roots, the binomial theorem for positive integral exponents, radicals, equations of the first and second degrees with one or more unknown quantities, putting problems into equations, ratios and proportions, variation, arithmetical, geometrical, and harmonical progressions.

2. Plane geometry,—Demonstrations, constructions, and solutions of numerical problems.

ENGLISH.—1. *Reading and Practice*. A limited number of books are assigned for reading. The candidate is required to present evidence of a general knowledge of the subject-matter of these books, and to answer simple questions on the lives of their authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and calls for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present

an exercise book, properly certified to by his instructor, containing compositions or other written work done in connection with the reading of the books. In preparation for this part of the requirement, it is important that the candidate shall have been instructed in the fundamental principles of rhetoric.

The books set for this part of the examination will be:—

1898—Milton's *Paradise Lost*, Books I. and II.; Pope's *Iliad*, Books I. and XXII.; the Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Ancient Mariner*; Southey's *Life of Nelson*; Carlyle's *Essay on Burns*; Lowell's *The Vision of Sir Launfal*; Hawthorne's *The House of the Seven Gables*.

1899—Dryden's *Palamon and Arcite*; Pope's *Iliad*, Books I., VI., XXII., and XXIV.; the Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Ancient Mariner*; De Quincey's *The Flight of a Tartar Tribe*; Cooper's *The Last of the Mohicans*; Lowell's *The Vision of Sir Launfal*; Hawthorne's *The House of the Seven Gables*.

1900—Dryden's *Palamon and Arcite*; Pope's *Iliad*, Books I., VI., XXII., and XXIV.; the Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; De Quincey's *The Flight of a Tartar Tribe*; Cooper's *The Last of the Mohicans*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*.

1901—Shakspeare's *Merchant of Venice*; Pope's *Iliad*, Books I., VI., XXII., and XXIV.; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe*; Cooper's *The Last of the Mohicans*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*.

2. *Study and Practice.* A smaller number of books are assigned for more careful study. The examination upon these books covers subject-matter, form, and structure, and also tests the candidate's ability to express his knowledge with clearness and accuracy. In addition, the candidate may be required to answer questions involving the essentials of English grammar, and questions on the leading facts in those periods of English literary history to which the prescribed works belong.

The books set for this part of the examination will be:—

1898—Shakspeare's *Macbeth*; Burke's *Speech on Conciliation with America*; De Quincey's *The Flight of a Tartar Tribe*; Tennyson's *The Princess*.

1899—Shakspeare's *Macbeth*; Milton's *Paradise Lost*, Books I. and II.; Burke's *Speech on Conciliation with America*; Carlyle's *Essay on Burns*.

1900—Shakspeare's *Macbeth*; Milton's *Paradise Lost*, Books I. and II.; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

1901—Shakspeare's *Macbeth*; Milton's *L'Allegro and Il Penseroso*, *Comus*, *Lycidas*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

NOTE.—No candidate will be accepted in English whose work is notably defective in point of spelling, punctuation, idiom, or division into paragraphs.

LATIN-SCIENTIFIC COURSE.

Candidates for admission to the Latin-Scientific Course are examined in the following subjects:—

LATIN.—Same requirements as for the Classical Course.

ANCIENT HISTORY AND GEOGRAPHY.—Same requirements as for the Classical Course, including Greek history and geography.

MATHEMATICS.—Same requirements as for the Classical Course.

ENGLISH.—Same requirements as for the Classical Course.

Two additional courses, to be selected from the following list (provided that at least one course in modern languages must be selected):—

1. ELEMENTARY FRENCH.—Such a knowledge of the language is required as may be obtained by the reading of at least 400 pages, part of which should be read at sight. The examination consists of easy passages at sight, elementary grammatical questions, and the translation of simple English sentences into French. To meet this requirement two years' work will generally be necessary.

2. ELEMENTARY GERMAN.—Such a knowledge of the language is required as may be obtained by the reading of at least 300 pages, part of which should be read at sight. The examination consists of

easy passages at sight, elementary grammatical questions, and the translation of simple English sentences into German. To meet this requirement two years' work will generally be necessary.

3. ADVANCED FRENCH, as specified on page 31.
4. ADVANCED GERMAN, as specified on page 31.
5. PHYSICAL GEOGRAPHY AND BOTANY, as specified on page 31.
6. PHYSICS, as specified on page 31.
7. CHEMISTRY, as specified on page 31.
8. HISTORY OF ENGLAND AND OF THE UNITED STATES, as specified below.

SCIENTIFIC COURSE.

Candidates for admission to the Scientific Course are examined in the following subjects:—

MATHEMATICS.—Same requirements as for the Classical Course.

ENGLISH.—Same requirements as for the Classical Course.

HISTORY OF ENGLAND AND OF THE UNITED STATES.—Such a knowledge of the subject is required as can be gained from Higginson and Channing's English History for Americans, and Johnston's History of the United States for Schools.

Six additional courses, to be selected from the following list (provided that at least one course in modern languages and at least one course in natural science must be selected):—

1. LATIN (counting as two courses).—Grammar, Caesar's Gallic War, books I.–IV., translation into Latin of simple English sentences.

2. ADVANCED MATHEMATICS (counting as two courses).—(1) Solid geometry. (2) Plane and spherical trigonometry, with the use of logarithmic and trigonometric tables. (3) Analytical geometry,—the straight line, the circle, and elementary properties of the conic sections.

3. ELEMENTARY FRENCH (counting as two courses), as specified on page 29.

4. ELEMENTARY GERMAN (counting as two courses), as specified on page 29.

5. **ADVANCED FRENCH.**—The requirement includes the reading of at least 400 additional pages of French (not more than half of which should be fiction), and regular practice in writing and speaking French. At least one additional year of study will be necessary to meet this requirement.

6. **ADVANCED GERMAN.**—The requirement includes the reading of at least 300 additional pages of German (not more than half of which should be fiction), and regular practice in writing and speaking German. At least one additional year of study will be necessary to meet this requirement.

7. **PHYSICAL GEOGRAPHY AND BOTANY.**—(1) In physical geography, such a knowledge of the subject is required as can be gained from the study of Geikie's *Elementary Lessons in Physical Geography*, or Tarr's *Elementary Physical Geography*.

(2) In botany, the candidate must pass an examination in Gray's *Lessons in Botany*, and must show ability to dissect flowers of ordinary difficulty, and to write descriptions of them.

8. **PHYSICS.**—(1) Such a knowledge of the subject is required as can be gained from Carhart and Chute's *Elements of Physics*, or Gage's *Introduction to Physical Science*.

(2) The candidate must also have performed a series of at least thirty experiments *involving careful measurements*, and must present his original note-book, containing full records of the experiments, and certified to by his instructor. The experiments may be selected from such manuals as Worthington's *Physical Laboratory Practice*, or Chute's *Physical Laboratory Manual*.

9. **CHEMISTRY.**—(1) Such a knowledge of the subject is required as can be gained from Storer and Lindsay's *Manual of Chemistry* (omitting pp. 230-286), or from Remsen's *Chemistry, Elementary Course*.

(2) The candidate must also have performed a series of at least fifty experiments, and must present his original note-book, containing records of the processes and results of the experiments, and certified to by his instructor.

NOTE.—The requirements for admission to the Latin-Scientific and Scientific Courses are to be made equal to those in the Classical Course in the year 1901.

SPECIAL COURSES.

Special students, not candidates for a degree, may be admitted, upon passing such examinations as the Faculty shall in each case prescribe.

GENERAL REGULATIONS CONCERNING
ADMISSION.

ADVANCED STANDING.—All candidates for advanced standing are examined in the preparatory studies, and also in those previously pursued by the classes they propose to enter, or in other studies equivalent to them. No candidate can be admitted later than at the beginning of the Senior year.

PRELIMINARY EXAMINATIONS.—A candidate for admission to the Classical Course may obtain a preliminary record a year or more in advance of the time at which he expects to enter college, on condition of passing, in the June or September examinations of any year taken together, in *nine* or more of the following subjects: Latin Grammar, Caesar, Cicero, Vergil, Latin Prose at Sight, Latin Poetry at Sight, Latin Composition, Greek Grammar, Xenophon, Homer, Greek at Sight, Greek Composition, Roman History, Greek History, Ancient Geography, Algebra, Geometry, English (Reading and Practice), English (Study and Practice).

A candidate for admission to the Latin-Scientific Course must pass in *eight* or more, and a candidate for admission to the Scientific Course in *seven* or more, of the following lists of subjects:—(1) Latin-Scientific: Latin Grammar, Caesar, Cicero, Vergil, Latin Prose at Sight, Latin Poetry at Sight, Latin Composition, Roman History, Greek History, Ancient Geography, Algebra, Geometry, English (Reading and Practice), English (Study and Practice), Elementary French, Elementary German, Advanced French, Advanced German, Physical Geography, Botany, Theoretical Physics, Practical Physics, Theoretical Chemistry, Practical Chemistry, History of England, History of the United States. (2) Scientific: Algebra, Geometry, English (Reading and Practice), English (Study and Practice), History of England, History of the United States, Latin Grammar, Caesar, Elementary Latin Composition, Solid Geometry, Plane and Spherical Trigonometry, Analytical Geometry, Elementary French, Elementary German, Advanced French, Advanced German, Physical Geography, Botany, Theoretical Physics, Practical Physics, Theoretical Chemistry, Practical Chemistry.

DATE AND PLACE OF EXAMINATIONS.—The regular examination for admission is held on the Thursday and Friday of Commencement week. Candidates must present themselves at South College at 9 A. M. on the former day. A second examination is held, commencing on the day preceding the first day of the first term. Candidates may be examined in Philadelphia, Cleveland, Cincinnati, or Chicago, provided they make application to the President before June 1. The time of these examinations will be Thursday and Friday of Commencement week. But, if no applications are received before June 1, these examinations will not be held.

ADMISSION BY CERTIFICATE.—Certificates covering the foregoing requirements for admission to college are received from certain schools of good standing, which have been approved by the Faculty. Detailed information concerning admission by certificate may be obtained on application to the President, or to the Secretary of the Faculty.

Ladies are admitted to equal privileges in the University with gentlemen.

All candidates for admission must present satisfactory testimonials of good moral character; and certificates of regular dismissal will be required from those who have been members of other colleges.



COURSES OF INSTRUCTION.



For regulations concerning selection of studies, see page 68.

The figures ¹ or ² following the number of a course indicate respectively that the course is offered for the first or the second half-year.

The place of meeting of each course is indicated by means of the following abbreviations: N. C.=North College; S. C.=South College; L. CH.=Lower Chapel; L. CH. 2=Small recitation room, Lower Chapel; J. H.=Judd Hall; O. H.=Observatory Hall; CHEM. LAB., PHYS. LAB., BIOL. LAB.=Chemical, Physical, Biological Laboratory.

The Roman numerals in parenthesis following each course indicate the examination group to which it is assigned. A tabular view of the groups is given on pages 66 and 67.

The mark * prefixed to the number of a course indicates that it can be elected only with the previous approval of the instructor.

LATIN.

PROFESSOR MERRILL; ASSOCIATE PROFESSOR NICOLSON; DR. HAYLEY.

I. LIVY,—Books 21 and 22 (*first half-year*). TERENCE,—Phormio and Adelphoi; PLAUTUS,—Trinummus (*second half-year*). Exercises in sight translation and in prose composition throughout the year. SECTION 1, *Mon., Tu., Wed., Fri., at 9*; SECTION 3, *Mon., Wed., Th., Fri., at 12*. DR. HAYLEY. SECTION 2, *Tu., Wed., Th., Fri., at 11*. PROFESSOR NICOLSON. 5 S. C. (II.)

Course I. is required of Classical and Latin-Scientific Freshmen.

II.¹ CICERO,—Selected Letters. *Tu., Th., at 9 (first half-year)*. 3 S. C. PROFESSOR MERRILL. (VIII.)

III.² PLINY THE YOUNGER,—Selected Letters. *Tu., Th., at 9 (second half-year)*. 3 S. C. DR. HAYLEY. (VIII.)

IV.¹ OVID, TIBULLUS, PROPERTIUS,—Selected Elegies. *Tu., Th., at 3 (first half-year)*. 5 S. C. DR. HAYLEY. (XII.)

V.² HORACE,—Odes and Epodes. *Tu., Th., at 3 (second half-year)*. 5 S. C. DR. HAYLEY. (XII.)

Courses II.-V. are elective for those who have taken Course I.

VI.¹ RAPID READING of selected passages of Latin literature of good quality and easy and interesting character. The course is designed to assist in the cultivation of facility primarily in the oral reading of Latin, and in the understanding of the language at sight and at hearing without translation, and secondarily in the reading for pleasure of considerable amounts of good Latin literature from a purely literary standpoint. The selections for this year consist chiefly of stories from Livy and Cicero, passages from Sallust's Catiline and Jugurthine War, and Cicero's Essays on Friendship and on Old Age. *Tu., Th., at 11 (first half-year)*. 3 S. C. PROFESSOR MERRILL (in alternate years PROFESSOR NICOLSON). (X.)

Course VI. is elective for those who have taken Course I.

VII.² A course in continuation of Course VI., but embracing some poetry as well as prose. The selections for this year are chiefly passages from Vergil, Ovid, Statius, Valerius Maximus, and Aulus Gellius, and the romance of Cupid and Psyche from the Golden Ass of Apuleius. *Tu., Th., at 11 (second half-year)*. 3 S. C. PROFESSOR MERRILL (in alternate years PROFESSOR NICOLSON). (X.)

Course VII. is elective for those who have taken Course VI. Courses VI. and VII. do not satisfy requirements 1 and 3, noted on page 68.

VIII. LATIN PROSE COMPOSITION. A course of practice in the simpler principles of Latin rhetoric and style, based chiefly upon the rendering into Latin of passages from standard modern literature, historical, epistolary, and argumentative. The work is varied from year to year in accordance with individual needs, so that it may often be elected with advantage by the same student for a second year. But in all such cases the previous approval of the instructor must be obtained. *Mon., at 3*. SECTION 1, PROFESSOR MERRILL, 40 N. C.; SECTION 2, DR. HAYLEY, 5 S. C. (VI.)

Course VIII. is elective for those who have taken Course I. Prospective candidates for preliminary honors in classics are advised to elect it in the Sophomore year.

IX.¹ LUCRETIVUS,—Books 1 and 3, and selections from the other books. *Wed., Fri., at 3 (first half-year)*. 5 S. C. PROFESSOR NICOLSON. (VI.)

X.² CATULLUS. *Wed., Fri., at 3 (second half-year)*. 5 S. C. PROFESSOR MERRILL. (VI.)

Courses IX. and X. are elective for those who have taken at least two of Courses II.-VII. They will be omitted in 1898-99.

[XI.¹ OVID,—the Fasti, with especial attention to historical and topographical questions. *Twice a week (first half-year)*. DR HAYLEY.]

[XII.² TACITUS,—selections from the Annals I.–VI., designed to illustrate the character of Tiberius, and the course of the upbuilding of the principate. *Twice a week (second half-year)*. PROFESSOR MERRILL.]

Courses XI. and XII. are elective for those who have taken at least two of Courses II.–VII. They are omitted the present year.

XIII.¹ ROMAN SATIRE,—from Ennius to Horace. A brief course of introductory lectures on the nature and early history of Roman satire, followed by illustrative readings from the extant fragments of the satires of Ennius, Lucilius, and Varro, and from the most characteristic satires of Horace (see also Course XVI.). *Tu., Th., at 10 (first half-year)*. 5 S. C. DR. HAYLEY. (IX.)

XIV.² ROMAN SATIRE. A course in continuation of Course XIII., with readings from the satires of Petronius, Seneca, Persius, and Juvenal. *Tu., Th., at 10 (second half-year)*. 5 S. C. PROFESSOR NICOLSON. (IX.)

Courses XIII. and XIV. are elective for those who have taken at least two of Courses II.–VII. They will be omitted in 1898–99.

[XV. ROMAN POETRY. A course of lectures and class readings to illustrate the historical development and literary characteristics of Roman poetry, exclusive of satire. Considerable collateral reading is required in the works of the poets chiefly discussed. *Twice a week*. PROFESSOR MERRILL.]

XVI. ROMAN LITERARY CRITICISM. The aim of the course is to examine the canons of literary taste and criticism among the Romans themselves, and incidentally to study the marked characteristics of style in the different forms of Roman literature. The passages read are chiefly from Lucilius, Cicero's Essays on Rhetoric, Horace's Talks and Letters and Essay on the Art of Poetry, Tacitus' Conversation on Public Speaking, Pliny's Letters, and Quintilian's Manual of Training in Public Speaking, with illustrative selections from other Roman writers. *Mon., at 4; Wed., at 3*. 40 N. C. PROFESSOR MERRILL.

Courses XV. and XVI. are elective for those who have taken at least two of Courses II.–VII. They are given in alternate years, Course XV. being omitted the present year.

[XI.¹ OVID,—the Fasti, with especial attention to historical and topographical questions. *Twice a week (first half-year)*. DR HAYLEY.]

[XII.² TACITUS,—selections from the Annals I.-VI., designed to illustrate the character of Tiberius, and the course of the upbuilding of the principate. *Twice a week (second half-year)*. PROFESSOR MERRILL.]

Courses XI. and XII. are elective for those who have taken at least two of Courses II.-VII. They are omitted the present year.

XIII.¹ ROMAN SATIRE,—from Ennius to Horace. A brief course of introductory lectures on the nature and early history of Roman satire, followed by illustrative readings from the extant fragments of the satires of Ennius, Lucilius, and Varro, and from the most characteristic satires of Horace (see also Course XVI.). *Tu., Th., at 10 (first half-year)*. 5 S. C. DR. HAYLEY. (IX.)

XIV.² ROMAN SATIRE. A course in continuation of Course XIII., with readings from the satires of Petronius, Seneca, Persius, and Juvenal. *Tu., Th., at 10 (second half-year)*. 5 S. C. PROFESSOR NICOLSON. (IX.)

Courses XIII. and XIV. are elective for those who have taken at least two of Courses II.-VII. They will be omitted in 1898-99.

[XV. ROMAN POETRY. A course of lectures and class readings to illustrate the historical development and literary characteristics of Roman poetry, exclusive of satire. Considerable collateral reading is required in the works of the poets chiefly discussed. *Twice a week*. PROFESSOR MERRILL.]

XVI. ROMAN LITERARY CRITICISM. The aim of the course is to examine the canons of literary taste and criticism among the Romans themselves, and incidentally to study the marked characteristics of style in the different forms of Roman literature. The passages read are chiefly from Lucilius, Cicero's Essays on Rhetoric, Horace's Talks and Letters and Essay on the Art of Poetry, Tacitus' Conversation on Public Speaking, Pliny's Letters, and Quintilian's Manual of Training in Public Speaking, with illustrative selections from other Roman writers. *Mon., at 4; Wed., at 3*. 40 N. C. PROFESSOR MERRILL.

Courses XV. and XVI. are elective for those who have taken at least two of Courses II.-VII. They are given in alternate years, Course XV. being omitted the present year.

[XVII. ROMAN TOPOGRAPHY AND PUBLIC BUILDINGS. A course of lectures, illustrated by photographs, engravings, and lantern-slides, and requiring some collateral study of original and of secondary authorities, and the careful preparation of note-books. *Twice a week.* PROFESSOR MERRILL.]

*XVIII. ROMAN PRIVATE LIFE AND SOCIAL INSTITUTIONS. A course of lectures, illustrated by photographs, engravings, and lantern-slides, and requiring some collateral study of original and of secondary authorities, and the careful preparation of note-books. *Tu., Th., at 12.* 40 N. C. PROFESSOR MERRILL. (XI.)

Courses XVII. and XVIII. are given in alternate years, Course XVII. being omitted the present year. They are elective, with the previous approval of the instructor, for those who have taken Course I. They do not satisfy requirements 1 and 3, noted on page 68.

[XIX.¹ LATIN EPIGRAPHY. An introductory course, with especial attention to the study of inscriptions of historical interest. The course is prefaced by a brief survey of the general classes and formal characteristics of Latin inscriptions, based upon Egbert's Introduction. *Twice a week (first half-year).* PROFESSOR MERRILL.]

Course XIX. is omitted the present year.

[XX.² LATIN EPIGRAPHY AND PALÆOGRAPHY. A course in continuation of Course XIX., proceeding by the individual interpretation of inscriptions after the seminary method. The work in epigraphy is followed by a brief course of lectures upon the rudiments of Latin palæography, accompanied by practical exercises and demonstrations. *Twice a week (second half-year).* PROFESSOR MERRILL.]

Course XX. is elective for those who have taken Course XIX. It is omitted the present year.

XXI. INTERPRETATION AND CRITICISM. A course of lectures on the general principles of interpretation and criticism as applied to classical authors, accompanied by practical demonstrations, and leading, in the second half-year, to the study by the individual students of fairly simple and typical problems in the same field, and to the presentation of papers embodying the results of their work for criticism before and by the class. *Twice a week.* PROFESSOR MERRILL.

Course XXI. is omitted the present year.

[XXII. LATIN SEMINARY. A course of practice in the critical interpretation of some Latin author, and in the preparation and

criticism of papers on themes connected with the work of interpretation. The authors selected for study vary from year to year. Each meeting of the class lasts one and one-half hours. *Twice a week.* PROFESSOR MERRILL.]

Course XXII. is omitted the present year.

Graduate Instruction.

Courses XIX.-XXII. are intended primarily for graduate students, although undergraduates who are especially well qualified may be admitted to any of them on special application to the instructor. Other courses may also be arranged in accordance with the needs of individual graduate students.

For the most successful prosecution of even the earlier courses in Latin, ability to read German prose on philological subjects is decidedly advantageous, and for Courses XVII.-XXII. it is necessary. Students, therefore, who look forward to the study of Latin beyond the more elementary courses, and who have on admission to college no acquaintance with German, should devote especial attention to that subject in the Freshman year.

GREEK.

PROFESSOR VAN BENSCHOTEN; DR. PATON.

I. LYSIAS,—Select Orations; HERODOTUS,—History of the Persian Wars (*first half-year*). PLATO,—Apology and Crito; HOMER,—Odyssey V.-VIII. (*second half-year*). Exercises in Greek composition and translation at sight throughout the year. SECTION 1, *Tu., Wed., Th., Fri., at 10*; SECTION 2, *Tu., Wed., Th., Fri., at 11*.
2 S. C. DR. PATON. (IV.)

Course I. is required of Classical Freshmen.

II. PLATO,—Euthyphro, Apology, Crito, Phaedo. Introduction to the study of Greek philosophy (*first half-year*). EURIPIDES,—Alcestis; ÆSCHYLUS,—Prometheus Bound; lectures and collateral reading on the Greek drama (*second half-year*). *Tu., Th., at 12*.
2 S. C. DR. PATON. (XI.)

Course II. is elective for those who have taken Course I.

III. THE LIFE AND LANGUAGE OF THE GREEKS. *Mon., at 12*.
3 S. C. PROFESSOR VAN BENSCHOTEN. (VI.)

Course III. is elective for those who take, or have taken, Course II.

[IV. GREEK COMEDY. The Frogs and the Acharnians of Aristophanes (*first half-year*). GREEK TRAGEDY. Aeschylus, Sophocles, Euripides (*second half-year*). One meeting each week will be devoted to special studies in the Greek language and literature. *Three times a week*. PROFESSOR VAN BENSCHOTEN.]

Course IV. is elective for those who have taken Courses I. and II., and who take, or have taken, Course III. It is omitted the present year.

V. GREEK PHILOSOPHY. The Clouds of Aristophanes (*first half-year*). Lucian; Xenophon (*second half-year*). *Mon., Wed., Fri., at 8.* 3 S. C. PROFESSOR VAN BENSCHOTEN. (I.)

Course V. is elective for those who have taken Courses I. and II., and who take, or have taken, Course III.

Courses IV. and V. are given in alternate years, Course IV. being omitted the present year.

VI. BIBLICAL GREEK. The text used will be Scrivener's New Testament in Greek, with the Revisers' Readings. Collateral studies; texts and translations. *Wed., Fri., at 11.* 3 S. C. PROFESSOR VAN BENSCHOTEN. (IV.)

Course VI. is elective for those who have taken Course II.

VII. PINDAR; Lyric Poetry (*first half-year*). LUCIAN; PAUSANIAS; Neo-Hellenic,—with collateral work on the geography and topography of Greece (*second half-year*). One meeting each week will be devoted to special advanced studies of the nature indicated under Course IV. *Three times a week*. PROFESSOR VAN BENSCHOTEN.

Course VII. is elective for those who have taken either Course IV. or Course V. It is omitted the present year.

*VIII. RAPID READING of selections from some of the less difficult Greek authors. *Fri., at 8.* 4 S. C. DR. PATON.

Course VIII. is elective for those who have taken Course II., provided the approval of the instructor is obtained.

[IX. CONSTITUTIONAL HISTORY OF ATHENS. Aristotle's Treatise on the Constitution of Athens will form the basis of the course, but will be supplemented by lectures and collateral reading. *Once a week*. DR. PATON.]

Course IX. is elective for those who have taken Course II., provided the approval of the instructor is obtained. It is omitted the present year.

X. SEMINARY FOR THE STUDY OF GREEK ARCHÆOLOGY. *Th., at 10 (counting as twice a week).* 4 S. C. PROFESSOR VAN BENSCHOTEN.

Course X. is elective for those who have taken Courses I. and II., and who take, or have taken, Course III.

[XI. GREEK LITERATURE. Lectures and collateral reading. *Once (counting as twice) a week.* PROFESSOR VAN BENSCHOTEN.]

Course XI. is elective for those who have taken Courses I. and II., and who take, or have taken, Course III. Courses X. and XI. are given in alternate years, Course XI. being omitted the present year.

Graduate Instruction.

Courses IX.-XI., although elective for undergraduates, are designed also for graduate students. Other courses may also be arranged in accordance with the needs of individual graduate students.

It is very desirable that those who elect the advanced courses in Greek should be able to read German prose on philological subjects.

GERMAN.

ASSOCIATE PROFESSOR FAUST.

I. ELEMENTARY GERMAN. Harris' German Lessons, and German Reader. Heyse,—L'Arrabbiata; Hillern,—Höher als die Kirche; Zschokke,—Das Abenteuer der Neujahrsnacht, Der zerbrochene Krug; Fouqué,—Undine. Thomas' Practical German Grammar. SECTION 1, *Mon., Wed., Fri., at 8*; SECTION 2, *Mon., Wed., Fri., at 3.* 12 S. C. (I.)

For rules in regard to the election of I. German, see page 44.

II. ADVANCED GERMAN. READINGS. Classical: Schiller,—Wilhelm Tell; Lessing,—Minna von Barnhelm; Goethe,—Hermann und Dorothea. Scientific: Brandt and Day's German Scientific Reading; Helmholtz,—Über Goethes naturwissenschaftliche Arbeiten.

PROSE COMPOSITION AND GRAMMAR. Harris' Selections for German Composition.

GERMAN LITERATURE. Kluge,—Geschichte der deutschen National-Litteratur. Biweekly lectures on German Literature. *Mon., Wed., Fri., at 11.* 12 S. C. (IV.)

Course II. is elective for those who have taken Course I.

III. GERMAN CONVERSATION. For acquiring a vocabulary and readiness in the use of German, the following phrase-books serve as guides: Whitcomb and Otto,—German and English Conversations; Meissner,—Practical Lessons in German Conversation. All class exercises are conducted in the German language. Lectures in German are given on subjects connected with the geography (illustrated by physical and political maps) and *Kulturgeschichte* of Germany. *Th.*, at 11. 6 S. C. (X.)

Course III. is elective for those who have taken Courses I. and II., or their equivalent.

IV. GERMAN LYRICAL POETRY. Readings and lectures, the period chosen for special study being the nineteenth century. Texts: Buchheim,—Deutsche Lyrik,—Balladen und Romanzen; Schiller,—Das Lied von der Glocke; Scheffel,—Der Trompeter von Säckingen. *Once a week.*]

Course IV. is elective for those who have taken Course I. It is omitted the present year.

[V.¹ GOETHE'S FAUST,—Part I., and selected portions of Part II. A critical study of the text, and discussion of the questions concerning the beginnings and the composition of the drama. Editions:—Thomas, Faust I.; G. von Loeper, Faust II. *Twice (counting as three times) a week, first half-year.*]

[VI.² MIDDLE HIGH GERMAN. Introductory course. Wright's Middle High German Primer; Weinhold,—Mittelhochdeutsches Lesebuch. *Twice (counting as three times) a week, second half-year.*]

Courses V. and VI. are elective for those who have taken Courses I.–III., or their equivalent.

Courses IV., V., and VI. are given in alternate years with Courses VII. and VIII., being omitted the present year.

VII. MIDDLE HIGH GERMAN. Advanced course. Paul,—Mittelhochdeutsche Grammatik. Das Nibelungenlied, ed. Zarncke; Walther von der Vogelweide, ed. Paul. *Tu.*, at 11 (*counting as twice a week*). 6 S. C. (X.)

Course VII., except in special cases, where the instructor's permission is obtained, is elective for those only who have taken Course VI.

VIII. THE HISTORY OF GERMAN FICTION. Lectures and reports: earliest prose fiction, Grimmelshausen's *Simplicissimus* (seventeenth century); the Robinsonaden, and English influence (eighteenth

century); Goethe's Wilhelm Meister; the romanticists; foreign influences (Scott; the historical and exotic romances); the national, and the modern realistic novel. Readings: Scheffel,—Ekkehard; Goethe,—*Dichtung und Wahrheit*; Freytag,—*Soll und Haben*; selected works of Chamisso, Fouqué, Auerbach, Storm, Heyse, Hillern, Ebner-Eschenbach, Sudermann. *Tu., Th., at 9 (counting as three times a week)*. 6 S. C. (VIII.)

Course VIII., except in special cases where the instructor's permission is obtained, is elective for those only who have taken Courses I.—III.

Graduate Instruction.

Courses V.—VIII. are designed also for graduate students. Those desiring advanced work in German literature, or an introduction into the study of German philology, are assigned courses of private reading.

ROMANOE LANGUAGES.

PROFESSOR KUHNS.

I. ELEMENTARY FRENCH. Whitney's Practical French Grammar, Part I. Super's French Reader. Victor Hugo,—*Quatre-vingt-treize*; Erckmann-Chatrian,—*Madame Thérèse*; About,—*Le Roi des Montagnes*. Part of the above books are read at sight. There is also personal drill in pronunciation. *Mon., Wed., Fri., at 8*. 11 S. C. (I.)

For rules in regard to the election of I. French, see page 44.

II. ADVANCED FRENCH. Whitney's Grammar, Part II., and Grandgent's French Composition. This course has for its main object the study of advanced grammar and composition, in connection with the reading of a large amount of French. During the second half-year more attention is paid to the literature. *Tu., Th., at 8*. 11 S. C. (VII.)

Course II. is elective for those who have taken Course I.

*III. FRENCH CONVERSATION. Bercy,—*Le Français Pratique*. During the year informal lectures on travel in Europe are given in French. Some of the lectures are illustrated by lantern slides. *Wed., at 11*. 6 S. C. (IV.)

Course III. is elective for those who have taken Course I.; but those who wish to elect it must obtain the permission of the instructor.

IV. FRENCH LITERATURE in the seventeenth, eighteenth, and nineteenth centuries. Selections from the works of the more important authors. There is at each recitation translation of English into French. Further, frequent lectures are given on the general state of literature in France in the seventeenth, eighteenth, and nineteenth centuries. In addition, each member of the class must take a somewhat extended course of reading, must prepare for the class an abstract of what he has read, and must also write a short essay in French on the life of a selected author. *Mon., Fri., at 9 (counting as three times a week).* 2 S. C. (II.)

Course IV. is elective for those who have taken Courses I.-III.

[V. OLD FRENCH. Constans' Chrestomathie de l'Ancien Français. Lectures and exercises in Old French etymology, based on La Vie de St. Alexis. *Once (counting as twice) a week.*]

Course V. is elective for those who have taken Courses I.-IV. It is omitted the present year.

VI. MEDIAEVAL FRENCH LITERATURE. Lectures and collateral reading. *Fri., at 12 (counting as twice a week).* 9 S. C. (V.)

Course VI. is elective for those who have taken Courses I.-IV.

[VII. ELEMENTARY ITALIAN. Italian Principia, I. De Amicis,—Cuore; Manzoni,—I Promessi Sposi; Pellico,—Le Mie Prigioni. In addition to the regular work by the class in translating modern prose, the instructor will translate and interpret to the class the Inferno and the Purgatorio of Dante, the last half-hour of each recitation being devoted to this exercise. As a preparation for this part of the work, the class is required to read Rossetti's Shadow of Dante. *Twice a week.*]

Course VII. is elective for Sophomores who have taken I. French. It is omitted the present year.

VIII. ADVANCED ITALIAN. Dante, Petrarch, Tasso, Ariosto. Lectures on the history of Italian literature. *Tu., Th., at 3.* 11 S. C. (XII.)

Course VIII. is elective for those who have taken Course VII.

Graduate Instruction.

Courses V. and VI. are designed for graduate students, but are elective for undergraduates.

Of the courses in French and German, Classical Freshmen are required to pursue either I. French or I. German, but are allowed their option between the two. Students in the Latin-Scientific Course are examined at entrance in the equivalent of either I. French or I. German, as they may elect, and in the Freshman year are required to pursue one course in French or German, but may continue the study of the language in which their entrance examination was taken, or may begin the study of the other language, as they may elect. Students in the Scientific Course are required to complete the equivalent of Courses I. and II. in French and I. and II. in German. Such of these courses as they have not pursued and passed in before entering college, they must take as soon as possible after entering.

ENGLISH LITERATURE

PROFESSOR WINCHESTER.

I. GENERAL INTRODUCTION TO ENGLISH LITERATURE. 1. An outline of the history of the literature. Stopford Brooke's *English Literature*, with lectures. *First half-year*. 2. Class-room reading and discussion of literary masterpieces. The works selected are:—Chaucer's Prologue to the *Canterbury Tales*, and the *Nonne Preestes Tale*; Shakspeare's *Hamlet*; selections from Pope's *Satires*. *Second half-year*. 3. A brief course of collateral reading, with written recitations and essays upon subjects drawn from the reading. Members of the class may choose any one of the courses in Winchester's *Five Short Courses of Reading in English Literature*. These courses consist of selections from the following authors:—

(1.) 1559-1674. Marlowe, Green, Shakspeare, Bacon, Milton.

(2.) 1660-1745. Dryden, Addison, Steele, Swift; with Johnson's *Lives of Dryden, Swift, and Pope*, and Thackeray's *Lectures on the English Humourists*.

(3.) 1745-1789. Gray, Goldsmith, Johnson, Burke, Cowper, Burns; with Leslie Stephen's *Life of Johnson*, Dobson's *Life of Goldsmith*, Morley's *Life of Burke*.

(4.) 1789-1832. Wordsworth, Coleridge, De Quincey, Lamb, Byron, Shelley, Keats.

(5.) 1832-1880. Carlyle, Ruskin, Matthew Arnold, Browning, Tennyson.

This work is tested by a series of written recitations and theses during the year. *Mon., Wed., Fri., at 12.* 11 S. C. (V.)

Course I. is elective for Juniors.

*II. ENGLISH POETRY, 1789-1832. Wordsworth, Coleridge, Scott, Byron, Shelley, Keats. Critical reading and discussion; lectures. SECTION I, *Mon., Wed., Fri., at 9*; SECTION 2, *Mon., Wed., Fri., at 11.* 56 N. C. (II.)

Course II. is elective (with some restrictions) for those who have taken Course I. It will be omitted in 1898-99.

[III. ENGLISH LITERATURE of the Victorian period, 1832-1880. Carlyle, Ruskin, Matthew Arnold, Tennyson, and Browning. Critical reading and discussion; lectures. *Three times a week.*]

Course III. is elective (with some restrictions) for those who have taken Course I. It is omitted the present year.

IV. ELEMENTS OF LITERARY CRITICISM. A course of lectures upon the essential elements and the various forms of literature, with practical exercises in the application of critical principles. *Wed., at 8.* L. CH. 2. (I.)

Course IV. is elective for those who have taken Course I.

V. DEBATE. Weekly practical exercises. Two members of the class are appointed to conduct the debate at each exercise. They must prepare written briefs of their argument, which are revised and corrected by the instructor, and are then publicly posted four days before the debate.

Course V. is elective for Seniors, and those who elect it are excused from half the rhetorical work required in Course VI. *Mon., at 10.* L. CH. 2.

VI. ENGLISH COMPOSITION. The rhetorical exercises of the Senior Class are assigned to this department. Every Senior—unless excused from half this requirement by the provisions of Course V.—must write either four essays or two orations. All written work receives the personal criticism of the instructor, and the orations are also rehearsed before the Professor of Elocution.

Graduate Instruction.

The following courses are open to graduates only:—

VII. THE ELIZABETHAN DRAMA. A survey of the origin of the Elizabethan drama, with some notice of the principal works of Shakspeare's immediate predecessors, followed by more careful study of a group of Shakspeare's most important dramas. *Once a week.* 56 N. C.

VIII. THE HISTORY OF ENGLISH LITERARY CRITICISM. An outline study of the growth of the development of English criticism, and of the changes in critical standards and in literary forms from

1579 to 1789. Sidney's Defense of Poesie, Dryden's Prefaces and Essay on Dramatic Poetry, Addison's Papers on Paradise Lost, and selections from the critical writings of Johnson and Goldsmith, will be studied as representing various phases of English critical opinion. *Once a week.* 56 N. C.

The provisions for graduate instruction in this department may be modified or increased in accordance with the needs or wishes of graduate students.

ENGLISH LANGUAGE

PROFESSOR MEAD.

I. A. GENERAL HISTORY OF THE ENGLISH LANGUAGE, with lectures and illustrative examples from Old English. Emerson's Brief History of the English Language, and Smith's Grammar of Old English, with readings in easy Old English prose. *Th., at 3 (counting as twice a week).* 12 S. C. (XII.)

B. SELECTIONS FROM MACAULAY'S ESSAYS, with lectures, illustrative extracts from other authors, and collateral reading in English literary history. SECTION 1, *Tu., at 12,* 6 S. C.; SECTION 2, *Tu., at 3,* 2 S. C., (*counting as twice a week*). (XII.)

Freshmen are required to take I. A or I. B. Course I. A is a necessary preparation for Course IV. Students who have not shown special aptitude for linguistic study are advised to elect Course I. B rather than I. A.

II.¹ RHETORIC. Hill's Foundations of Rhetoric, Wendell's English Composition. The members of the class are required to write, in addition to their regular essays, weekly exercises illustrating and applying the principles laid down in the text-books. These exercises are discussed and criticised by the class. As a study in modern prose style, the class read and discuss in the class-room Macaulay's essay on Croker's edition of Boswell's Life of Johnson, and Brewster's Studies in Structure and Style. SECTION 1, *Mon., Wed., Fri., at 8;* SECTION 2, *Mon., Wed., Fri., at 9 (first half-year).* 6 S. C. (II.)

Course II. is required of Sophomores.

III. ENGLISH COMPOSITION. A. Freshmen are required to present frequent written exercises, based upon the collateral reading in Course I. A or I. B, or upon assigned general topics. The theory of composition is treated in a brief course in elementary rhetoric.

B. Sophomores write, in addition to the exercises described in II., six essays during the year on subjects approved by the instructor. Each member of the class meets the instructor privately for individual criticism.

C. Juniors write on subjects of their own selection, and choose one of the two following courses: Course I., consisting of five general and two departmental essays; Course II., consisting of two general and four departmental essays. The departmental essays must be written on subjects related to some department of college work and approved by the instructor in English. Appointments for individual criticism are made for each member of the class.

IV. OLD ENGLISH. 1. Bright's Anglo-Saxon Reader, with an introductory course in Cook's First Book in Old English. Sievers' Old English Grammar is used for reference. As much time as possible is given to rapid reading of Old English prose at sight. For collateral reading, Freeman's Old English History and Gardiner's Student's History of England are recommended. The history of Old English literature is treated in a course of weekly lectures (see Course V.). 2. Each member of the class is required, in addition, to read either (1) The Anglo-Saxon Chronicle, entire, or (2) Cynewulf's Elene. *Mon., Wed., at 3.* 6 S. C. (VI.)

Course IV. is elective for Sophomores who have taken Course I. A. It must be taken by all who intend to elect Course VI.

V. OLD ENGLISH LITERATURE. A course of lectures on the history of Old English literature before 1100 A. D., with some account of contemporary Germanic literature. The aim of this course is to give a survey of all the Old English prose and poetry before the Norman Conquest, and to describe the life of which the literature is a reflection. *Fri., at 3.* 6 S. C. (VI.)

Course V. is elective for all Sophomores, but is required of those who elect Course IV.

[VI. MIDDLE ENGLISH. The period to be studied extends from Layamon to the imitators of Chaucer.

1. Morris and Skeat's Specimens of Early English. The second half-year is devoted principally to Chaucer. The historical development of the literature is treated in weekly lectures (see Course VII.). For collateral reading, ten Brink's History of English Literature is recommended.

2. Each member of the class elects one of the following courses of collateral reading, and presents at least one thesis on a topic requiring special investigation:—

(1) Selections from the Arthurian Romances, with a study of some of their sources. (2) Selections from the Charlemagne Romances. (3) Selections from Chaucer's Canterbury Tales and minor poems. *Twice a week.*]

Course VI. is elective for those who have taken Course IV. Those who elect it must elect also Course VII. Courses IV. and VI. are given in alternate years, Course VI. being omitted the present year.

[VII. MIDDLE ENGLISH LITERATURE. A course of lectures on English literature from the Norman Conquest to the Revival of Learning. The aim of this course is to point out the relations of the early literature of England to the contemporary literature of Europe, and to indicate the materials that have been used again in modern English literature. Especial attention will be given to the Arthurian Romances and to Chaucer. *Once a week.*]

Course VII. is elective for Juniors, even for those who have not taken Course IV., but is required of those who elect Course VI. Courses V. and VII. are given in alternate years, Course VII. being omitted the present year.

VIII. BEOWULF. An advanced course in Old English poetry, with supplementary linguistic investigations involving comparison of Old English and Gothic forms. *Th., at 10 (counting as twice a week).*

Course VIII. is elective for those who have taken Course IV.

Graduate Instruction.

Graduate courses may be arranged by conference with the head of the department.

ELOCUTION.

PROFESSOR HIBBARD.

I. DECLAMATION. Members of the Freshman class are required to deliver declamations, mostly of their own selection, fortnightly.

Every member of the Sophomore class is required to deliver nine, and every member of the Junior class is required to deliver six, declamations during the year.

- II. THEORY OF ELOCUTION. 1. Mechanics of speech. Theories of vocal expression. Text-book, Russell's Vocal Culture. *First term.*
2. Gesture, theories of Austin and Delsarte. Text-book, Bacon's Manual of Gesture. *Second term.*
3. Study of Style. Lectures on extempore speech and sources of power. *Third term. Tu., Th., at 3. L. CH. (XII.)*
- Course II. is elective for Juniors.

HISTORY.

DR. FARRAND.

- I. OUTLINES OF GENERAL HISTORY. European history from the time of the German migrations to the Peace of Westphalia (1648), with introductory survey of the ancient civilizations of the East, and of the history of Greece and Rome. Ploetz' Epitome of Universal History (Tillinghast's translation); lectures and recitations. *Tu., Th., at 8. L. CH. 2. (VII.)*

Course I. is elective for Juniors.

- II.¹ THE FORMATIVE PERIOD OF ENGLISH HISTORY. English history from the English Conquest to the close of the Hundred Years' War. Ransome's History of England is used as a text-book, supplemented by lectures. *Tu., Th., at 12 (first half-year). L. CH. 2. (XI.)*

Course II. is elective for Juniors.

- III.² ENGLAND UNDER THE TUDORS AND STUARTS. A continuation of Course II. After a brief sketch of the Wars of the Roses, this course treats of English history from the accession of Henry VIII. to the Revolution of 1688. Text-book and lectures as in Course II. *Tu., Th., at 12 (second half-year). L. CH. 2. (XI.)*

Course III. is elective for those who have taken Course II.

- [IV. HISTORY OF FRANCE. A sketch of French history from the election of Hugh Capet to the close of the Napoleonic wars. Lectures and recitations. *Twice a week.*]

Course IV. is elective for Juniors. It is omitted the present year.

- V.¹ HISTORY OF THE ENGLISH CONSTITUTION. Feilden's Constitutional History of England, Cheyney's English Constitutional Documents. The course consists of lectures and recitations upon

the origin and growth of the English constitution, with discussions of the more important documents. *Tu., Th., at 10 (first half-year).* L. CH. 2. (IX.)

Course V. is elective for those who take, or have taken, Courses II. and III.

[VI. POLITICAL AND ECONOMIC HISTORY OF THE UNITED STATES. The course is introduced by a brief survey of the period of colonization, and of the struggle of the English and French for possession of the continent. An extended examination of the political and economic life of the United States during the first century of the constitution follows. *Twice a week.*]

Course VI. is elective for Juniors. It is omitted the present year.

VII.¹ EUROPEAN GOVERNMENTS. The governments of the more important state systems of Europe, in their origin and present working, are treated in this course. Wilson's State is used as a text-book, supplemented by lectures. *Mon., Wed., at 2 (first half-year).* L. CH. 2. (VI.)

Course VII. is elective for Juniors.

VIII.² THE GOVERNMENT OF THE UNITED STATES. A continuation of Course VII. Bryce's American Commonwealth (abridged edition) is the basis of the course, which is conducted on seminary methods. *Mon., Wed., at 3 (second half-year).* L. CH. 2. (VI.)

Course VIII. is elective for those who have taken Course VII.

IX.² HISTORICAL SEMINARY. The subject for the present year is the Historical Development of the Theory of Secession. *Mon., 7-9 p. m. (second half-year).*

Course IX. is elective for Seniors who take, or have taken, Course V. or Course VI.

ECONOMICS AND SOCIAL SCIENCE.

PROFESSOR FISHER.

I.² PRINCIPLES OF ECONOMIC SCIENCE. General introductory course. Recitations and discussions on the basis of Gide's Principles of Political Economy. *Mon., Wed., Fri., at 10 (second half-year).* 11 S. C. (III.)

Course I. is required of Juniors.

II.¹ ADVANCED ECONOMICS. This course includes a brief historical view, on the basis of Ingram's History of Political Economy and Cossa's Introduction to the Study of Political Economy, and critical studies in the writings of some of the great economists, Smith, Malthus, Ricardo, Say, Senior, Mill, Cairnes, Jevons, Roscher, Wagner, Marshall, and Pierson. *Mon., Wed., Fri., at 12 (first half-year)*. L. CH. 2. (V.)

Course II. is elective for those who have taken Course I.

III.² PUBLIC FINANCE. The economy of the state:—revenues from taxation, from government industries, and from other sources; the contraction, administration, conversion and liquidation of public debts; government expenditures, their social and industrial effects. The work of this course is based on Adams' Science of Finance; a number of lectures are also given; and references are made to standard authorities. *Mon., Wed., Fri., at 12 (second half-year)*. L. CH. 2. (V.)

Course III. is elective for those who have taken Course I.

IV.¹ MONEY AND BANKING. A course of lectures on the general principles and history of monetary and banking institutions, on the social and industrial aspects of the present monetary situation, and on the various schemes for reform. *Tu., Th., at 9 (first half-year)*. L. CH. 2. (VIII.)

Course IV. is elective for those who have taken Course I.

V.² THE GENERAL LABOR PROBLEM. A course of lectures on the nature, causes, and justification of the present social discontent, and on such suggested remedies as moral elevation, charity, education, provident institutions, labor organizations, strikes, conciliation and arbitration, labor legislation, improved wage systems, profit-sharing, coöperation, nationalization of the land, socialism, communism, anarchism. *Tu., Th., at 9 (second half-year)*. L. CH. 2. (VIII.)

Course V. is elective for those who have taken Course I.

VI.¹ SOCIOLOGY. A discussion of the fundamental principles of social organization, and the conditions and methods of social progress. *Tu., Th., at 11 (first half-year)*. L. CH. 2. (X.)

Course VI. is elective for those who have taken Course I.

VII.² SOCIAL SCIENCE. An examination of certain concrete social problems of the present:—pauperism and charity; the defective and criminal classes; immigration. The class-room work is supplemented

by visits to several of the charitable, penal, and reformatory institutions in and about Middletown. *Tu., Th., at 11 (second half-year).*
I. CH. 2. (X.)

Course VII. is elective for those who have taken Courses I. and VI.

VIII. ECONOMIC SEMINARY. Each member of the seminary takes for private individual investigation, under the direction of the instructor, some problem in economics, finance, statistics, or social science, and week by week reports in class on progress made and obstacles met. At the close of the year the work is brought together in a final report or thesis. *Th., at 12 (counting as twice a week).*

Course VIII. is elective for those who, having received not lower than second grade in Course I., take any three of the Courses III.-VII.

Graduate Instruction.

Course VIII. is intended primarily for graduate students, but is open also to such undergraduates of the Senior year as are making special studies in the department. Courses II.-VII., while open to Seniors, may also be taken with advantage by graduates who have studied only the principles of economic science.

PHILOSOPHY.

PROFESSOR ARMSTRONG; DR. JUDD.

I.² LOGIC. Jevons-Hill's Elements of Logic. An elementary course in the fundamental forms of reasoned thinking, deductive and inductive alike. The study of the text-book is illustrated by numerous examples in logical praxis. SECTION 1, *Wed., Fri., at 9, 6 S. C.*; SECTION 2, *Wed., Fri., at 3, 11 S. C., (second half-year).* DR. JUDD. (II.)

Course I. is required of Sophomores.

II.¹ PSYCHOLOGY. Sully's Outlines of Psychology, with references to other authorities. Lectures and discussions are used to supplement the text-book. These are introduced especially in explanation of the more recent psychological investigations and of positions still under debate. SECTION 1, *Mon., Wed., Fri., at 10*; SECTION 2, *Mon., Wed., at 10, Fri., at 3 (first half-year).* 11 S. C. PROFESSOR ARMSTRONG. (III.)

Course II. is required of Juniors.

III. PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY. The course begins with a discussion of the physical basis of mind; but more than half of the time is devoted to the study of the chief experimental methods and results. The work is conducted in the main by lectures and experimental demonstrations. Ladd's *Outlines of Physiological Psychology* is used as the text-book during the first part of the course. *Tu., Th., at 2.* 6 S. C. DR. JUDD. (XII.)

Course III. is elective for Juniors.

IV.¹ ADVANCED LOGIC. The course opens with several lectures on the history of logic. In connection with Hibben's *Inductive Logic* as a text-book, special attention is given to the discussion of the principles of induction and scientific method and to the criticism of concrete cases of scientific inference. *Tu., Th., at 11 (first half-year).* 11 S. C. DR. JUDD. (X.)

Course IV. is elective for Juniors.

V.¹ INTRODUCTION TO PHILOSOPHY. Lectures and recitations, with references to the Introductions of Stuckenbruck, Ladd, and Külpe. *Mon., at 11 (first half-year).* 6 S. C. PROFESSOR ARMSTRONG. (X.)

Course V. may not be elected by itself. It must be combined either with Course IV. or Course VI.

VI.² ANCIENT AND MEDIÆVAL PHILOSOPHY. Zeller's *Outlines of Greek Philosophy*, with references to Schwegler, Zeller's larger work, and other authorities; lectures and discussions. *Tu., Th., at 11 (second half-year).* 11 S. C. PROFESSOR ARMSTRONG. (X.)

Course VI. is elective, under ordinary circumstances, for those who have taken Course IV. or Course V.

VII.¹ MODERN PHILOSOPHY FROM THE RENAISSANCE TO KANT. Falckenberg's *History of Modern Philosophy*; lectures, recitations, discussions, and references to other standard histories of philosophy. *Wed., Fri., at 11; Th., at 3 (first half-year).* 7 S. C. PROFESSOR ARMSTRONG. (IV.)

Course VII. is elective, under ordinary circumstances, for those who have taken Course VI.

VIII.¹ MODERN PHILOSOPHY FROM KANT TO THE PRESENT TIME. Falckenberg's *History of Modern Philosophy*; lectures, recitations,

discussions, and references to other authorities. *Wed., Fri., at 11; Th., at 3 (first half-year).* 7 S. C. PROFESSOR ARMSTRONG. (IV.)

Course VIII. is elective for those who take Course VII.

For this year only Courses VII. and VIII. are given together as one course, three hours a week (counting as four hours). Ordinarily Course VII. is given in the first half-year and Course VIII. in the second, each two hours a week.

IX. ADVANCED PSYCHOLOGY. The object of this course is the discussion of the most important questions in systematic psychology. The views of leading thinkers are presented in lectures, and in reports by members of the class; and these views are subjected to comparative and independent criticism. *Tu., at 8.* 7 S. C. DR. JUDD. (VII.)

Course IX. is elective for those who have taken Course III., or for those who have received first or second grade in Course II.

*X. PSYCHOLOGICAL SEMINARY. Research work in experimental psychology is undertaken with the instructor on the perception of space and time. *Tu., 7:30-9:30 p. m.* 7 S. C. DR. JUDD.

Course X. is intended for honor students and graduates, but may be elected by Seniors who obtain permission of the instructor. When elected to satisfy the requirements for honors, it must be taken in addition to the minimum quota of hours (14) required of all students.

XI.¹ READINGS IN MODERN PHILOSOPHY. In this course, representative works of leading thinkers of the first half of the modern period are read and discussed. Special attention is given to selections from Locke, Berkeley, Hume, and Kant. *Mon., Wed., at 9 (first half-year).* 7 S. C. DR. JUDD. (II.)

Course XI. is elective for those who are taking Course VII.

XII.² METAPHYSICS. Lotze's *Metaphysics*. Class readings and discussions. Topical reports and theses may also be required. *Mon., Wed., Fri., at 9 (second half-year).* 7 S. C. PROFESSOR ARMSTRONG. (II.)

Course XII. is elective for those who are taking Course VIII.

Graduate Instruction.

XIII. GRADUATE SEMINARY. The Philosophy of Kant, as given in the *Critiques of Pure Reason, Judgment, and Practical Reason.*

Once or twice a week, at the convenience of the class. 7 S. C. PROFESSOR ARMSTRONG.

Course XIII. is intended for graduate students, Courses X.-XII. for advanced undergraduates and graduates. Special courses under the direction of the instructors of the department may be arranged in advanced experimental and theoretical psychology, historical philosophy, and metaphysics.

ETHICS AND EVIDENCES OF CHRISTIANITY.

PRESIDENT RAYMOND; PROFESSOR RICE; DR. STARKS.

I.¹ ETHICS. Lectures upon the chief subjects in philosophical ethics, with a brief study of Christian ethics. Herbert Spencer's Data of Ethics and a part of Martineau's Types of Ethical Theory are reviewed in connection with the work of the class. *Wed., Fri., at 10 (first half-year).* L. CH. DR. STARKS. (III.)

Course I. is required of Seniors.

II.² EVIDENCES OF CHRISTIANITY. Lectures, with collateral readings on all the important topics. *Wed., Fri., at 10 (second half-year).* L. CH. DR. STARKS. (III.)

Course II. is required of Seniors.

III.² THEISM. Instruction is given by lectures, supplemented by collateral readings and class discussions. The purpose of the course is to discover essential religious phenomena, to test the various historic theories offered in explanation of these phenomena, and to find a philosophic basis for faith. *Wed., at 3 (second half-year), counting as twice a week.* L. CH. PRESIDENT RAYMOND. (VI.)

Course III. is elective for those who have taken Courses I., II., IV.-VII. in Philosophy, and who take VIII. Philosophy.

IV.² RELATIONS OF SCIENCE AND RELIGION. A course of lectures on the history of important advances in scientific thought and their bearing upon theistic and Christian belief. The heliocentric astronomy, the antiquity of the earth and of man, the theory of evolution, and the correlation of physical and vital forces, are among the topics discussed. *Tu., Th., at 10 (second half-year).* 8 J. H. PROFESSOR RICE. (IX.)

Course IV. is elective for Juniors.

MATHEMATICS AND ASTRONOMY.

PROFESSOR J. M. VAN VLECK; ASSOCIATE PROFESSOR E. B. VAN VLECK;
DR. LING.

I. SOLID GEOMETRY. Phillips and Fisher's Elements of Geometry. *First third of the year.*

TRIGONOMETRY. Plane and Spherical. *Second third of the year.*

ANALYTICAL GEOMETRY. Elementary course. *Last third of the year.* SECTION 1, *Mon., Tu., Th., Fri., at 9;* SECTION 3, *Mon., Tu., Th., Fri., at 12.* DR. LING. SECTION 2, *Mon., Tu., Th., Fri., at 10.* PROFESSOR E. B. VAN VLECK. 12 S. C. (V.)

Course I. is required of Classical and Latin-Scientific Freshmen, and of Scientific Freshmen who did not pass in the advanced requirements in mathematics on admission to college.

II. ALGEBRA. Advanced course. Hall and Knight's Higher Algebra. *Mon., at 3.* 26 O. H. DR. LING. (VI.)

Course II. is elective for those who have taken Course I.

III. TRIGONOMETRY. Advanced course, with applications to problems in surveying and astronomy. *Tu., Th., at 11.* 26 O. H. DR. LING. (X.)

Course III. is elective for those who have taken Course I. It will be omitted in 1898-99.

IV. ANALYTICAL GEOMETRY. Advanced course, based upon C. Smith's Conic Sections, with an elementary introduction to solid geometry. *Wed., Fri., at 2.* 26 O. H. DR. LING. (VI.)

Course IV. is elective for those who have taken Course I.

V. DIFFERENTIAL AND INTEGRAL CALCULUS. Elementary course. Osborne's Treatise on Differential and Integral Calculus. *Mon., Wed., Fri., at 12.* 25 O. H. PROFESSOR E. B. VAN VLECK. (V.)

Course V. is elective for those who have taken Course I.

Courses II., IV., and V. are necessary for those who purpose to pursue advanced courses in pure mathematics; Course V. is necessary for those intending to pursue advanced courses in physics and other branches of applied mathematics.

VI. DIFFERENTIAL EQUATIONS, based on Murray's Treatise on Differential Equations. *Tu., Th., at 8.* 26 O. H. PROFESSOR E. B. VAN VLECK. (VII.)

Course VI. is elective for those who have taken Course V.

VII. ANALYTICAL GEOMETRY OF THREE DIMENSIONS, including especially a study of mathematical models. *Tu., Th., at 10.* 26 O. H. PROFESSOR J. M. VAN VLECK. (IX.)

Course VII. is elective for those who have taken Course IV., and who take or have taken Course V.

[VIII. PROJECTIVE GEOMETRY. *Twice a week.* PROFESSOR E. B. VAN VLECK.]

Course VIII. is elective for those who have taken Course IV. or Course V. It is omitted the present year, but will be given in 1898-99.

IX. HIGHER PLANE CURVES. *Tu., Th., at 12.* 26 O. H. PROFESSOR E. B. VAN VLECK. (XI.)

Course IX. is elective for those who have taken Course VIII. It will be omitted in 1898-99.

X. THEORY OF FUNCTIONS, based on Fisher and Schwatt's translation of Durège's Theory of Functions. *Mon., Wed., at 11.* 26 O. H. PROFESSOR E. B. VAN VLECK. (IV.)

Course X. is elective for those who have taken Course V.

[XI. ELLIPTIC FUNCTIONS. *Twice a week.* PROFESSOR J. M. VAN VLECK.]

Course XI. is elective for those who have taken Course X. It is omitted the present year, but will be given in 1898-99.

XII. THEORETICAL MECHANICS. *Wed., Fri., at 12.* 26 O. H. PROFESSOR J. M. VAN VLECK. (V.)

Course XII. is elective for those who have taken Course V.

XIII. ASTRONOMY. A general course, requiring only elementary mathematics. *Tu., Th., at 9.* 26 O. H. PROFESSOR J. M. VAN VLECK. (VIII.)

Course XIII. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores.

XIV. SPHERICAL AND PRACTICAL ASTRONOMY, with practical exercises in the observatory. *Wed., Fri., at 9.* 26 O. H. PROFESSOR J. M. VAN VLECK. (II.)

Course XIV. is elective for those who have taken Courses V. and XIII.

Graduate Instruction.

Courses VIII., IX., X., XI., XII., and XIV. are intended for graduate students as well as advanced undergraduates.

PHYSICS.

PROFESSOR CRAWFORD; PROFESSOR ROSA.

I. **ELEMENTARY PHYSICS.** A general course, involving only elementary mathematics. Text-book, Ames's Theory of Physics. *Mon., Fri., at 10 (first half-year); Mon., Wed., Fri., at 10 (second half-year).* 25 O. H. PROFESSORS CRAWFORD AND ROSA. (III.)

Course I. is required of Classical Sophomores, and of Latin-Scientific Sophomores and Scientific Freshmen who did not pass in physics on admission to college.

II. **ELEMENTARY PRACTICAL PHYSICS.** This course is intended for those who purpose to teach physics, and also as an introductory course for those who expect to take further laboratory work. Two exercises a week, the time required for each exercise being $2\frac{1}{2}$ hours. *Tu., Th., or Wed., Fri., at 2.* PHYS. LAB. PROFESSOR CRAWFORD.

Course II. is elective for those who take, or have taken, Course I.

[III. **ELEMENTARY MECHANICS**, involving only elementary mathematics, and with some illustrative experiments. *Twice a week.* PROFESSOR CRAWFORD.]

Course III. is elective for those who take, or have taken, Course I. It is omitted the present year.

IV. **HEAT.** Stewart's Elementary Treatise on Heat. *First half-year.* SOUND. A course based on Everett's Vibratory Motion and Sound, with extensive supplementary readings. *Second half-year.* *Wed., Fri., at 8.* 25 O. H. PROFESSOR CRAWFORD. (I.)

Course IV. is elective for those who have taken Course I.

[V. **LIGHT.** Glazebrook's Physical Optics, with introductory lectures on geometrical optics. *Twice a week.* PROFESSOR CRAWFORD.]

Course V. is elective for those who have taken Course I. It is omitted the present year.

VI. **ELECTRICITY.** In the first half-year Nichols and Franklin's Elements of Physics, Vol. II., is used. In the second half-year the course consists of lectures and lessons from a text-book giving the modern theory of the electro-magnet, and applying it to dynamos, motors, and other electrical apparatus. This course is, in the main, theoretical rather than technical. *Mon., Wed., at 11.* 25 O. H. PROFESSOR CRAWFORD (*first half-year*); PROFESSOR ROSA (*second half-year*). (IV.)

Course VI. is elective for those who have taken Course I.

VII. PRACTICAL PHYSICS. The experiments in this course involve careful measurements of the nature indicated in such manuals as those of Kohlrausch, Glazebrook and Shaw, Carhart and Patterson, and Stewart and Gee. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises per week)*. PROFESSORS CRAWFORD AND ROSA.

Course VII. is elective for those who have taken Course I.

VIII. PRACTICAL PHYSICS. A continuation of Course VII. In the department of electricity opportunity is afforded for some shop-work, and for extended investigation of the problems connected with transformers and with alternating currents in general. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises per week)*. PROFESSORS CRAWFORD AND ROSA.

Course VIII. is elective for those who have taken Course VII.

Students taking Courses IV.-VIII. are advised to take, if they have not already taken, Course V. in Mathematics.

In Courses VII. and VIII. the work in mechanics, sound, light, and heat is carried on in the physical laboratory in Observatory Hall, under Professor Crawford; the work in electricity in the electrical laboratory, under Professor Rosa.

IX. MATHEMATICAL THEORY OF ELECTRICITY. This course is based upon J. J. Thomson's Elements of Electricity and Magnetism. The differential and integral calculus is freely used, and an acquaintance with differential equations and analytical geometry of three dimensions is also helpful to those taking the course. *Tu., Th., at 11. 25 O. H.* PROFESSOR ROSA. (X.)

Course IX. is elective for those who take, or have taken, Course VI.

[X. DYNAMO-ELECTRIC MACHINERY. A continuation of Course VI. The theory and use of dynamos and motors of various types, including direct current machines and alternating current machines of the single-phase, two-phase, and poly-phase varieties. *Twice a week.* PROFESSOR ROSA.]

Course X. is elective for those who have taken Course VI. It is omitted the present year.

XI. ALTERNATING CURRENTS OF ELECTRICITY. A course on the theory of periodic currents and their practical applications. Text-book, Jackson's Alternating Currents and Alternating Current Machinery. *Tu., Th., at 12. 25 O. H.* PROFESSOR ROSA. (XI.)

Course XI. is elective for those who have taken Course VI. in Physics, and Course V. in Mathematics.

XII. JOURNAL MEETING. The instructors of the department meet the graduate students and advanced undergraduates for the purpose of reporting and discussing articles from the current journals of general physics and electricity. *Fri., at 11. 25 O. H.*

Graduate Instruction.

XIII. PHYSICAL SEMINARY. In this course special topics are chosen for more thorough and extended study than is possible in any of the other courses. The topics discussed last year were (*a*) the delineation and analysis of alternating current curves, (*b*) the discharge of electricity through gases. The main topic chosen for this year is the kinetic theory of matter. *Wed., at 9. 25 O. H.* PROFESSORS CRAWFORD AND ROSA.

Courses VIII.-XII. are intended for graduates and advanced undergraduates, Course XIII. for graduates only.

CHEMISTRY.

PROFESSOR ATWATER; PROFESSOR BRADLEY; DR. TOWER;
DR. BENEDICT.

I. ELEMENTARY CHEMISTRY. This course is devoted to the elementary principles of the science. Each student performs a considerable number of experiments in the laboratory. *Tu., Th., at 10. 3 J. H.* PROFESSORS ATWATER AND BRADLEY. (IX.)

Course I. is required of Classical Sophomores, and of Latin-Scientific Sophomores and Scientific Freshmen who did not pass in chemistry on admission to college.

II.¹ ADVANCED ELEMENTARY CHEMISTRY. A course of lectures on the general principles and some of the applications of chemistry. It is supplementary to Course I. *Tu., Th., at 11 (first half-year).* 3 J. H. PROFESSOR ATWATER. (X.)

Course II. is elective for those who have taken Course I.

III. QUALITATIVE ANALYSIS. A practical course in basic, acid, and blow-pipe analysis. Lectures are given on the chemical problems involved in the detection of the more common metals. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises per week).* CHEM. LAB. PROFESSOR BRADLEY.

Course III. is elective for those who have taken Course I.

IV. QUANTITATIVE ANALYSIS. A practical course in quantitative analysis and special laboratory exercises adapted to the wants of individual students. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises per week)*. CHEM. LAB. PROFESSOR ATWATER AND DR. BENEDICT.

Course IV. is elective for those who have taken Course III. It may be elected for part of the year, the quota of hours to be completed for the rest of the year from Course VIII.

V. ORGANIC CHEMISTRY. Lectures on the principles of organic chemistry, as illustrated by the derivatives of methane and benzene. *Mon., Wed., Fri., at 8*. 3 J. H. PROFESSOR BRADLEY. (I.)

Course V. is elective for those who have taken Course III.

VI.² PHYSIOLOGICAL CHEMISTRY. Lectures on selected chapters of physiological chemistry. Special attention is given to the chemistry of the animal body. *Tu., Th., at 11 (second half-year)*. 3 J. H. PROFESSOR ATWATER. (X.)

Course VI. is elective for those who take, or have taken, Course II. It is desirable that those who elect it should also elect Course V.

VII. ORGANIC CHEMISTRY. A practical course devoted to practice in the preparation of compounds of carbon. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises per week)*. CHEM. LAB. PROFESSOR BRADLEY.

Course VII. is elective for those who have taken Course III. It is desirable that this course be taken in connection with, or after, Course V.

VIII. PHYSIOLOGICAL CHEMISTRY. A laboratory course in the preparation of compounds of interest in physiological chemistry. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises per week)*. CHEM. LAB. PROFESSOR ATWATER AND DR. BENEDICT.

Course VIII. is elective for those who have taken or are taking Course VI., and may be elected for the second half-year alone. See note under Course IV.

Courses VI. and VIII. are recommended to those who purpose to study medicine.

IX. THEORETICAL CHEMISTRY. A series of lectures upon the origin, development, and present status of the theory of the atom and molecule. *Wed., Fri., at 9*. 3 J. H. PROFESSOR BRADLEY. (II.)

Course IX. is elective for those who have taken Course III.

X. PHYSICAL CHEMISTRY. A course of lectures, with particular reference to electro-chemistry. *Th., at 2.* 3 J. H. DR. TOWER.

Course X. is elective for those who take, or have taken, Course III.

XI. CHEMICAL SEMINARY. A course of instruction and reading in biological chemistry. *Tu., Th., at 8.* 2 J. H. PROFESSOR ATWATER.

Course XI. is elective for those who have taken Courses V. and VI.

Graduate Instruction.

Course XI., although elective for undergraduates, is designed chiefly for graduates. Laboratory courses of research in physical, physiological, and organic chemistry may be arranged.

GEOLOGY.

PROFESSOR RICE.

I. ELEMENTARY GEOLOGY. A course of lectures, chiefly on dynamical and structural geology. Dana's Revised Text-book of Geology is recommended for reference. *Tu., Th., at 12.* 8 J. H. (XI.)

Course I. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores.

II.¹ DYNAMICAL AND STRUCTURAL GEOLOGY. Advanced course. Recitations and lectures, with Scott's Introduction to Geology as a text-book. Special topics for study, with bibliographical references, are assigned to each member of the class. Lectures on these topics by the members of the class are discussed and criticized. Excursions on Saturdays during the fall. The phenomena observed in an excursion are discussed at the next meeting of the class, one of the members of the class generally giving a report or lecture. *Mon., Wed., Fri., at 12 (first half-year), counting as four times a week.* 8 J. H. (V.)

Course II. is elective for those who have taken Course I. It is very desirable, however, that those who take this course should also have taken the courses in physical geography and mineralogy.

III.² HISTORICAL GEOLOGY AND PALEONTOLOGY. Recitations and lectures, with Scott's Introduction to Geology as a text-book. Lectures on special topics by members of the class, as in Course II. Excursions on Saturdays during the spring (required only of those who take also Course II.). *Mon., Wed., Fri., at 12 (second half-year), counting as four times a week for those who take also Course II.* 8 J. H. (V.)

Course III. is elective for those who have taken Course I. It is very desirable, however, that those who take this course should also have taken the courses in zoölogy and botany.

IV.¹ PHYSICAL GEOGRAPHY. Recitations and lectures, Tarr's Elementary Physical Geography being used as a text-book. *Mon., Fri., at 3 (first half-year).* 8 J. H. (VI.)

Course IV. (in connection with II. and III. Biology) is elective for Classical Sophomores, and required of Latin-Scientific and Scientific Freshmen who did not pass in physical geography on admission to college.

V.¹ MINERALOGY. Crystallography and optical mineralogy. Lectures, and practical exercises. Dana's Text-book of Mineralogy, and Williams' Elements of Crystallography, are used for reference. *Mon., Wed., Fri., at 11 (first half-year).* 8 J. H. (IV.)

Course V. is elective for Classical and Latin-Scientific Juniors and Scientific Sophomores.

VI.² MINERALOGY. Determinative and descriptive mineralogy. Laboratory work in determinative mineralogy, lectures on descriptive mineralogy. Brush's Manual of Determinative Mineralogy, and Dana's Text-book of Mineralogy, are used for reference. *Mon., Wed., Fri., at 11 (second half-year).* 8 J. H. (IV.)

Course VI. is elective for those who have taken Course V.

Graduate Instruction.

Courses II., III., V., and VI., although intended primarily for undergraduates, have often been taken by graduate students.

Additional work is provided for graduate students. This may include courses of reading in various branches of geological science, field-work, or laboratory work in mineralogy and lithology.

BIOLOGY.

† PROFESSOR CONN; MR. ESTEN.

[I. PHYSIOLOGY. The instruction is given chiefly by lectures, Martin's Human Body being used as a text-book. Enough anatomy is given to render the physiological discussions intelligible, and enough hygiene to guide to an intelligent care of the body. *Twice a week.*]

† Absent for the year.

Course I. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores. It is omitted the present year, and in 1898-99 will be elective for those of whom it would be required if given in 1897-98.

[II. GENERAL BIOLOGY. This course is devoted to the study of the simpler laws of life, and the relations of animals and plants. Practical study is made of the fern, the earthworm, and the frog, which are used as illustrating the general structure and physiology of plants and animals. This course is designed as an introduction to the studies of botany, zoölogy, and physiology. *Once a week.*]

Course II. (in connection with IV. Geology and III. Biology) is elective for Classical Sophomores, and is required of Latin-Scientific and Scientific Freshmen. It is omitted the present year, and will be elective in 1898-99 for those of whom it would be required if given in 1897-98.

III.² BOTANY. Practical work in the study of structural and microscopic botany. The course begins with the study of cryptogams, followed by a study of phenogams. The study of cryptogams is by lectures and laboratory work. For the study of phenogams Gray's Lessons is used as a text-book. The last eight weeks are devoted to the analysis and description of flowers, with Gray's Manual of Botany for a guide. *Mon., Fri., 2-4 (second half-year), two hours counting as one.* 8 J. H. MR. ESTEN. (VI.)

Course III. (in connection with IV. Geology and II. Biology) is elective for Classical Sophomores, and is required of Latin-Scientific and Scientific Freshmen who did not pass in botany on admission to college.

[IV. ZOÖLOGY. Lectures, recitations, and class dissections. Typical examples, illustrating the various groups of the animal kingdom, are described, attention being given rather to the general laws governing living beings than to the systematic classification of species. The course includes the embryology of the various forms studied, as well as their adult anatomy. *Twice a week.*]

Course IV. is elective for Classical Juniors and for Latin-Scientific and Scientific Sophomores. It is omitted the present year.

V. PRACTICAL BIOLOGY. The design of the courses in practical biology is to furnish opportunity for special biological work along such lines as may be best adapted to the future plans of the students. Those intending to study medicine devote their attention largely to

physiology, histology, and the dissection of some mammal. Those desiring a more general course make a brief examination of various groups of the animal and vegetable kingdoms.

Those electing the study for two years spend the first year in the study of biology in general, making careful study of illustrative types from the different groups of the animal and vegetable kingdoms, such as amoeba, infusoria, hydra, earthworm, bacteria, yeast, mould, lichens, mosses, flowering plant, etc. The laboratory work is planned to illustrate, so far as possible, the principles of biology, comparative anatomy, and embryology. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at a (twice or three times a week)*. BIOL. LAB. MR. ESTEN.

Course V. is elective for Juniors.

VI. PRACTICAL BIOLOGY. Advanced course. The second year is devoted to experiments in physiology and to the study of histology, bacteriology, embryology, and mammalian anatomy. During the second half-year each student pursues some special work assigned by the instructor in charge. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at a (twice or three times a week)*. BIOL. LAB. MR. ESTEN.

Course VI. is elective for those who have taken Course V.

[VII. EVOLUTION. A course of lectures and recitations, giving an outline of the general theory of evolution. *Twice a week (first half-year)*.]

Course VII. is elective for Juniors. It is omitted the present year.

[VIII. BACTERIOLOGY. A course of lectures giving the history of bacteriology from the seventeenth century to the present time. *Once a week*.]

Course VIII. is elective for those who take, or have taken, Course V. It is omitted the present year.

Candidates for special honors in biology are especially recommended to take at least one summer course in the marine laboratory at Cold Spring Harbor.

Graduate Instruction.

Courses VI. and VII., although elective for undergraduates, are designed also for such graduates as have not already specialized in biology.

Graduate courses of research are provided, consisting mainly of laboratory work, accompanied by collateral reading.

A Journal Club meets weekly to discuss current biological science.

EXAMINATION GROUPS.

No student is allowed to take more than one course in any of these groups, with the exception of those (bracketed together) which are not given in the same half-year. The following courses are not assigned to any group, and they may be elected without limitation: XVI. Latin; VIII., X. Greek; VII., VIII. English Literature; VIII. English Language; IX. History; VIII. Economics; X., XIII. Philosophy; II., VII., VIII., XII., XIII. Physics; III., IV., VII., VIII., X., XI. Chemistry; V., VI. Biology.

I.—*M., W., F., at 8.*

- V. Greek.
- I. German.
- I. French.
- IV. English Literature, *W.*
- IV. Physics, *W., F.*
- V. Chemistry.

II.—*M., W., F., at 9.*

- I. Latin, *also T., Th.*
- IV. French, *M., F.*
- II. English Literature.
- { Rhetoric.
- { Logic, *W., F.*
- { XI. Philosophy, *M., W.*
- { XII. Philosophy.
- XIV. Mathematics, *W., F.*
- IX. Chemistry, *W., F.*

III.—*M., W., F., at 10.*

- { Psychology.
- { I. Economics.
- { Ethics, *W., F.*
- { Evidences, *W., F.*
- I. Physics.

IV.—*M., W., F., at 11.*

- I. Greek, *T., W., Th., F.*
- VI. Greek, *W., F.*
- II. German.
- III. French, *W.*
- { VII. Philosophy.
- { VIII. Philosophy.
- X. Mathematics, *M., W.*
- VI. Physics, *M., W.*
- Mineralogy.

V.—*M., W., F., at 12.*

- VI. French, *F.*
- I. English Literature.
- { II. Economics.
- { III. Economics.
- I. Mathematics, *M., T., Th., F.*
- V. Mathematics.
- XII. Mathematics, *W., F.*
- { II. Geology.
- { III. Geology.

VI.—*M., W., F., at 3.*

- *VIII. Latin, *M.*
- { IX. Latin, *W., F.*
- { X. Latin, *W., F.*
- III. Greek, *M. (at 12).*
- **IV. English Language, *M., W.*
- V. English Language, *F.*
- { VII. History, *M., W.*
- { VIII. History, *M., W.*
- Theism, *W.*
- †II. Mathematics, *M.*
- IV. Mathematics, *W., F.*
- { Physical Geography, *M., F.*
- { Botany, *M., F.*

VII.—*T., Th., at 8.*

- II. French.
- I. History.
- IX. Philosophy, *T.*
- VI. Mathematics.

VIII.—*T., Th., at 9.*

- { II. Latin.
- { III. Latin.
- VIII. German.
- { IV. Economics.
- { V. Economics.
- Astronomy.

IX.—*T., Th., at 10.*

- { XIII. Latin.
- { XIV. Latin.
- { V. History.
- { Science and Religion.
- VII. Mathematics.
- I. Chemistry.

X.—*T., Th., at 11.*

- { VI. Latin.
- { VII. Latin.
- III. German, *Th.*
- VII. German, *T.*
- { VI. Economics.
- { VII. Economics.
- { IV. Philosophy.
- { VI. Philosophy.
- †† V. Philosophy, *M.*
- III. Mathematics.
- IX. Physics.
- { II. Chemistry.
- { VI. Chemistry.

XI.—*T., Th., at 12.*

- XVIII. Latin.
- II. Greek.
- { II. History.
- { III. History.
- IX. Mathematics.
- XI. Physics.
- I. Geology.

XII.—*T., Th., at 3.*

- { IV. Latin.
- { V. Latin.
- Italian.
- I. A English Language, *Th.*
- I. B English Language, *T.*
- Elocution.
- III. Philosophy.

* May be elected with IX. and X. Latin, and III. Greek.

** May be elected with V. English Language.

† May be elected with IV. Mathematics.

†† May be elected with either IV. or VI. Philosophy.

SELECTION OF STUDIES.

The studies which are required of students in the respective classes and courses are indicated below. In addition to these, each student of the three upper classes is required to elect such a number of studies that his *average* number of recitations and lectures per week for the year, exclusive of rhetorical exercises, shall be not less than 14 nor more than 17. The minimum requirement for Freshmen is 15 recitations and lectures per week for the year, exclusive of declamations; the maximum is 17. Elections must be made in accordance with the restrictions specified in the description of the respective courses in the foregoing statement of the courses of instruction. *No student is allowed to take more than one course in any examination group (see pages 66 and 67), with the exception of those (bracketed together) which are not given in the same half-year.*

SCHEDULE OF REQUIRED STUDIES.

N. B.—The numbers in italics indicate the average number of hours per week for the year.

CLASSICAL COURSE.

FRESHMEN:—I. Latin, 4; I. Greek, 4; I. Mathematics, 4; I. A or I. B English Language, 2; I. German, or I. French, 3.

SOPHOMORES:—Rhetoric and Logic, 2½; I. Physics and I. Chemistry, 4½; also one of the following combinations:—1. Not less than one course of two hours per week in each of the three departments of Latin, Greek, and mathematics. 2. Not less than five hours per week of electives in mathematics and physics, both Latin and Greek being dropped. 3. Not less than five hours per week in Latin and Greek, and not less than one course of two hours per week in each of those departments.

JUNIORS:—Psychology, 1½; I. Economics, 1½.

SENIORS:—Ethics, 1; Evidences of Christianity, 1.

LATIN-SCIENTIFIC COURSE.

FRESHMEN:—I. Latin, 4; I. Mathematics, 4; I. A or I. B English Language, 2; Physical Geography and Botany, 2; I. or II. French, or I. or II. German, 2 or 3. (See page 44.)

For such of the courses in science or modern languages as Latin-Scientific Freshmen may have passed in at entrance, they substitute enough elective work to fill out the required quota of exercises per week.

SOPHOMORES:—Rhetoric and Logic, 2½; I. Physics and I. Chemistry, 4½.

JUNIORS:—Psychology, 1½; Economics, 1½.

SENIORS:—Ethics, 1; Evidences of Christianity, 1.

SCIENTIFIC COURSE.

FRESHMEN:—Not less than 15 hours per week of the following courses: I. Mathematics, 4; I. A or I. B English Language, 2; I. German, 3, and II. French, 2, or II. German, 3, and I. French, 3 (see page 44); I. Physics and I. Chemistry, 4½; Physical Geography and Botany, 2.

For such of these studies as students may have passed in at entrance, they are allowed to substitute elective work.

SOPHOMORES:—II. German, 3, or II. French, 2 (see page 44); Rhetoric, 1½; Logic, 1; Astronomy, 2; Geology, 2.

JUNIORS:—Psychology, 1½; I. Economics, 1½.

SENIORS:—Ethics, 1; Evidences of Christianity, 1.

In addition to the courses indicated in the foregoing statement, exercises in English composition and public speaking are required of all classes, as specified on pages 45-48.

[illegible]

	<p> I. B. English Language, 2. Elocution. II, VII, VIII. Physics. V, VI. Biology. </p>	<p> I. German, 2. IV. English Language. VIII. History (2d half). Logic, 2 (2d half). Theism (2d half). II, VII, VIII. Physics. III, IV, VII, VIII. Chemistry. V, VI. Biology. </p>	<p> II, VII, VIII. Physics. III, IV, VII, VIII. Chemistry. V, VI. Biology. </p>
4.	<p> XVI. Latin. III, IV, VII, VIII. Chemistry. Botany (2d half). </p>	<p> I. B. English Language, 2. Elocution. II, VII, VIII. Physics. V, VI. Biology. </p>	<p> II, VII, VIII. Physics. III, IV, VII, VIII. Chemistry. V, VI. Biology. </p>

DAILY PROGRAMME.

The order of lectures and recitations is set forth in the table given on pages 70 and 71. In that table the sign * indicates that an exercise occurs only occasionally, the particular days to be announced by the instructor. Roman numerals preceding the names of certain studies refer to the numbers of the courses as enumerated in the foregoing statement of courses of instruction. Arabic numerals, following the names of certain studies, indicate the sections into which the classes are divided.

The hours of meeting of the following classes are arranged to suit the convenience of the instructors and students concerned, viz.:—
VII., VIII. English Literature; XIII. Philosophy.



GENERAL REGULATIONS.*

QUOTA OF STUDIES.

For students of the three upper classes, the quota of regular studies is, for a minimum, fourteen hours, and for a maximum, seventeen hours of class-room work each week, exclusive of rhetorical exercises. The quota for Freshmen is, for a minimum, fifteen hours, and for a maximum, seventeen hours of class-room work each week, exclusive of declamations. No student is allowed to take less than fourteen, nor more than seventeen, hours of work each week without special permission from the Faculty.

GRADES.

The general character of the work of each student in each study is indicated by his assignment to one of five grades, grade 1 denoting the highest excellence, and grade 5 failure to pass. The Secretary of the Faculty sends to each student, within three weeks after Commencement, a report of his grades in all the studies which he has taken during the year.

EXAMINATIONS.

Regular examinations are held at the end of the college year, and during a specified period in February, according to the times at which the respective studies are completed. No student who has been absent from fifteen per cent. or more of the required exercises in any study can be admitted to examination in that study, except by special permission from the Faculty. Such permission may be accorded when the Faculty are convinced that the absences have not been due to culpable negligence. In the application of this rule, absences from the first or the last exercise of a term, in any study, or consecutive absences including the first or the last exercise, are each reckoned as two absences.

* Copies of the detailed Regulations may be obtained from the Secretary.

To students who, for any reason, have not passed at any regular examination, opportunities for special examinations are given at specified times. If a student fails to pass a final examination in any study before that study is taken up by the next succeeding class, he is required, unless specially excused therefrom, to recite with that class. A student who, at the close of the special examinations held at the beginning of the year, is deficient by an amount equivalent to six or more hours of work per week for a year, is ranked with the next lower class, unless specially excused therefrom by the Faculty.

ENTRANCE CONDITIONS.

A student who fails to make up entrance conditions before the first day of November of the next college year, is then excluded from all recitations until the conditions are made up.

PUBLIC WORSHIP.

Devotional services, at which the attendance of students is required, are held in the College Chapel every morning.

Every student is required to attend the Sunday morning service in some one of the churches in the city.

A limited number of absences from chapel and church are allowed, without the presentation of any excuse.

Voluntary religious services under the direction of the several college classes and of the Young Men's Christian Association are held weekly.

ATHLETIC AND MUSICAL ORGANIZATIONS.

No member of the Senior or Junior class who is deficient in his college work more than three hours per week for a year, and no member of the Sophomore class who is deficient more than four hours per week for a year, is allowed to take part in any athletic contest with another team, except by special permission; and any student who becomes notably deficient in his work during the year may be debarred from taking part in such a contest.

Members of the college musical organizations who are deficient as specified in the preceding paragraph are not allowed to appear in public concerts given by those organizations.

LEAVE OF ABSENCE.

A student who desires excuse from college exercises on account of absence from town must apply to the President for permission to be absent, and, unless the circumstances of the case render it impracticable, such permission must be obtained before the student's departure.

EXPENSES.

The annual charges in the Treasurer's bill are as follows:—

Tuition,	-	-	-	-	-	-	\$75 00
Rent and care of half-room, unfurnished, from							
\$22.00 to \$40.00; average,	-	-	-	-	-	-	30 00
Steam heat; average for half-room,	-	-	-	-	-	-	9 00
General repairs and incidentals (lighting, heating,							
and caring for public rooms, gymnasium fee,							
etc.),	-	-	-	-	-	-	27 00
Use of library and reading-rooms,	-	-	-	-	-	-	6 00
Total,	-	-	-	-	-	-	\$147 00

A fee of five dollars a term is charged to each student in practical physics, and also to each student in practical biology.

Students in practical chemistry are charged the following fees, per term: for organic chemistry, ten; for quantitative analysis, eight and one-third; and for qualitative analysis, five dollars. A moderate charge is also made for breakage.

Ladies residing in the Ladies' Hall are charged at the rate of five dollars and a half a week for board and room-rent. Those residing elsewhere in the city are charged two dollars a term for the use of the study-room in the Ladies' Hall.

A diploma fee of five dollars is charged to each student at graduation.

A diploma fee of ten dollars is charged to each graduate student upon promotion to the Master's degree.

The college bills are payable at the commencement of each term; a rebate of one dollar is made on all college bills that are paid on or before the day appointed. Unless the bill for any term is paid, or payment thereof satisfactorily secured, before the commencement of the following term, the student is liable to exclusion from recitations.

No student can have an honorable dismissal, or certificate of progress in his studies, until his bills are paid or payment thereof secured.

A student who is absent from college on account of sickness, or for other cause, and who retains his place in his class, must pay the full college bills during his absence.

The rooms in the college buildings are rented to students during term time only, and must be vacated at the close of the third term. Students are held accountable for any damage done to their rooms. During the summer vacation the rooms are put in order, and the expense charged to the occupants.

Students are permitted to take lodgings in town, but the places in which they room or board are in all cases subject to the approval of the Faculty. If, however, any of the rooms in the college are thus left vacant, the rent of such rooms may be charged to holders of free scholarships who room in town.

Board may be obtained in private families at prices varying from \$3.75 to \$5.00 a week. A large majority of the students board in clubs, at prices ranging from \$3.00 to \$3.75 a week.

Other expenses incident to college life vary with the habits and circumstances of the students. They are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and health have been compelled to leave the college for want of money.



MATERIAL EQUIPMENT.

LIBRARY AND READING-ROOMS.

THE LIBRARY in Rich Hall contains about forty-seven thousand volumes. The library is open every week-day of term time, except Saturdays, from 8:15 A. M. to 1 P. M., and from 2:30 to 4:30 P. M.; on Saturdays, from 8:15 A. M. to 12 M., and from 1 P. M. to 4 P. M. Students are allowed direct access to the shelves. Copies of the library rules may be obtained from the librarian.

On the first floor of North College is a reading-room, provided with the principal newspapers, daily and weekly. Another reading-room, on the second floor of Rich Hall, contains the current issues of the most important magazines and reviews, literary and scientific, American and foreign.

ASTRONOMICAL OBSERVATORY.

THE OBSERVATORY is used for purposes of instruction, and is well equipped therefor. Students in astronomy have frequent opportunities to examine the most interesting celestial objects through the telescope; and members of the class in practical astronomy are instructed in the theory and use of all the instruments in the observatory.

The principal instruments are an equatorial of twelve inches aperture, by Alvan Clark & Sons, provided with a filar micrometer and spectroscopes, solar and stellar, two of which have very high dispersive power; a transit instrument of three inches aperture, with collimators of the same aperture, and adapted to use as a zenith telescope; a prime vertical instrument of the same size; sextants; two astronomical clocks; a chronometer; and a chronograph.

LABORATORIES AND APPARATUS.

THE LABORATORY OF EXPERIMENTAL PSYCHOLOGY contains a collection of apparatus for illustration and experiment in the field of physiological and experimental psychology. The equipment is now sufficient for a thorough demonstration course and for some advanced research. Among the principal pieces of apparatus are brain models, a Hipp chronoscope, Helmholtz's rotation apparatus, Schumann's "Leitsinn" apparatus, a sphygmograph, a plethysmograph, stereoscopes, tuning forks, electrical supplies, etc. The laboratory occupies at present the same room as the philosophical seminary, No. 7 South College.

THE PHYSICAL LABORATORY is equipped with apparatus for the performance of most of the experiments usually undertaken in undergraduate courses; while, in the department of electricity, recent additions of apparatus and machinery afford facilities for instruction in the use of all important electrical instruments and machines. The laboratory work in all departments except electricity is carried on in the rooms on the ground floor of Observatory Hall. The building originally used as a chemical laboratory has been transformed into an electrical laboratory. In the steam-heating plant, located at a convenient distance from the electrical laboratory, is the dynamo room containing a 25 horse-power engine, several dynamos and motors, transformers, and testing instruments.

THE CHEMICAL LABORATORY occupies five rooms in Judd Hall, with store-rooms in the basement. A large working-room on the first floor, with a balance room adjoining, furnishes accommodations for about fifty students, and smaller rooms afford conveniences for the work of instructors, assistants, and graduate students. A large room in the basement is used for the laboratory work of the required course in elementary chemistry.

THE BIOLOGICAL LABORATORY occupies six rooms in Judd Hall, and is capable of accommodating about thirty students. Four rooms are used for general laboratory purposes, of which one is used for miscellaneous laboratory work, one for physiological work, one for coarse dissection, and one for bacteriological work. The laboratory is equipped with all the apparatus necessary for elementary biological work, being supplied with microscopes, micrometers, water tanks, warm chambers, dissecting apparatus, myographs, bacteriological apparatus, etc., together with abundance of material for anatomical

and histological study. The general laboratory room is provided with a type collection illustrating all orders of animals, and students are allowed to use the large museum collection for comparison and direct study.

THE MECHANICAL LABORATORY occupies the west room in the steam-heating plant, and is in charge of a skilled mechanician. Its equipment includes a large improved 16-inch Hendey-Norton lathe, a Hendey shaper, and two smaller lathes. This laboratory affords facilities not only for the repair of apparatus belonging to the college and the construction of special pieces of new apparatus which may be designed by the professors or by the mechanician, but also for the instruction of students who find a certain degree of mechanical skill necessary to complete their training in the scientific departments.

The rooms of the biological, physical, and mechanical laboratories are lighted by electricity.

MATHEMATICAL MODELS. This collection, the gift of Ebenezer Hill, Esq., of the class of 1870, comprises a complete set of the models made by Brill of Darmstadt, for illustration in the higher branches of mathematics, as well as in mathematical physics and crystallography. They are arranged in a series of cases in a room adjoining the mathematical lecture room in Observatory Hall.

GYMNASIUM.

THE GYMNASIUM is located on the north side of the rear campus and runs parallel to Wyllys Avenue, with the front towards the campus. Its dimensions are 55 by 120 feet.

The basement contains two bowling alleys, a baseball cage, baths, lockers, and toilet rooms.

On the first floor is the main hall of the gymnasium, which affords ample room for every variety of gymnastic exercise, and is fully equipped with the best modern apparatus. Above the main floor there is a running track, suspended from the roof. The director's office, and rooms for baths and lockers are also on the first floor. On the second floor is a committee room for the use of the various athletic organizations, as well as additional baths and lockers. Special attention has been paid to ventilation, drainage, and lighting, and the present structure is believed to contain the best features of a modern gymnasium.

The gymnasium is in charge of a competent director. Exercise in the gymnasium is required of the men of the Freshman and Sophomore classes, three hours a week, from Thanksgiving to the end of the winter term. Elective work in the gymnasium is offered to the men of the Junior and Senior classes.

Through the generosity of Mr. J. E. Andrus, of the class of 1862, a new Athletic Field, furnished with all modern improvements, is now in course of construction.

MUSEUM.

THE MUSEUM OF NATURAL HISTORY AND ETHNOGRAPHY occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with special reference to educational purposes, and are freely accessible to students.

The nucleus of the departments of zoölogy and botany was formed by the Shurtleff collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The Zoölogical Department has received since 1872 most important accessions in liberal donations and exchanges from the Smithsonian Institution, and in collections made by the curators on the coast of New England, through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland have also added large and valuable collections. This department includes about thirteen thousand species. The vertebrata of North America, the marine invertebrata of New England, and the mollusca in general, are especially well represented.

The Herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many specimens from foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the University in 1879.

The Mineralogical Department includes about four hundred species, and a much larger number of varieties. The Franckfort collection, purchased in 1858, contains many choice specimens, mostly from European localities. The minerals of the interesting region in which Middletown is situated, are well represented by collections commenced by the labors of Professor Johnston, and largely increased by accessions within the last few years.

The Geological Department includes collections in lithology, physical geology, and paleontology. A suite of Ward's casts of fossils,

presented by Orange Judd, M. A., in 1871, serves an excellent purpose in the work of instruction, affording the student a representation of many remarkable forms of ancient life, actual specimens of which are rare or unique. The collections in paleontology have been very largely increased within the last few years, by the work of the present curator in western Maryland, in the vicinity of Canon City, Col., at Valcour Island, Lake Champlain, in the vicinity of Chattanooga, Tenn., and in the vicinity of Middletown. A choice collection of European fossils, including a number of beautiful specimens from the lithographic limestone of Solenhofen, has been recently received in exchange from the Museum of Munich.

The Ethnographical Department includes a large collection of Indian relics; a valuable collection of pottery from the guano beds of Peru, presented by the late Joseph S. Spinney; an interesting collection of weapons and other objects from the South Sea Islands; and a remarkably full series of objects illustrative of Chinese life and customs, presented by Rev. Marcus L. Taft, D. D. In connection with the ethnographical department of the museum should be mentioned a collection of coins, numbering over 3,000, exclusive of duplicates. Included in this number is a collection of 1,750 Chinese coins, some of which are ancient and very rare, presented by Rev. Marcus L. Taft, D. D. The greater part of the ethnographical collection is at present arranged in the lower hall of the museum, with the collections in mineralogy and geology. The coins (with the exception of a small selection placed on exhibition in the museum) are kept in a case in the library, where they can be seen by students and others on special application. Small collections illustrative of classical archæology are kept in the seminary rooms.

The following is an approximate statement of the number of specimens in the various departments of the museum:—

DEPARTMENT OF ZOOLOGY.

Mammals—skins mounted and unmounted,	-	-	-	200
alcoholic, -	-	-	-	50
skulls and skeletons,	-	-	-	110
Birds—skins mounted and unmounted,	-	-	-	1,500
nests and eggs,	-	-	-	600
Reptiles, -	-	-	-	350
Amphibians, -	-	-	-	150
Fishes, -	-	-	-	2,100
Insects—pinned and alcoholic, -	-	-	-	5,500

Insects—nests, borings, etc.,	-	-	-	-	-	-	-	50
Crustacea, -	-	-	-	-	-	-	-	1,500
Worms, -	-	-	-	-	-	-	-	1,800
Mollusks—shells,	-	-	-	-	-	-	-	90,000
alcoholic, -	-	-	-	-	-	-	-	4,000
Echinoderms, -	-	-	-	-	-	-	-	1,000
Cœlentera, -	-	-	-	-	-	-	-	1,700
Sponges and protozoa,	-	-	-	-	-	-	-	150

DEPARTMENT OF BOTANY.

Plants in herbarium, -	-	-	-	-	-	-	-	10,700
Specimens of wood, -	-	-	-	-	-	-	-	300
Miscellaneous botanical specimens, -	-	-	-	-	-	-	-	600

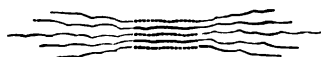
DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks, -	-	-	-	-	-	-	-	13,000
Fossils—Paleozoic, -	-	-	-	-	-	-	-	9,000
Mesozoic, -	-	-	-	-	-	-	-	2,400
Cenozoic, -	-	-	-	-	-	-	-	2,000

DEPARTMENT OF ETHNOGRAPHY.

Miscellaneous ethnographic specimens, -	-	-	-	-	-	-	-	2,700
Coins, -	-	-	-	-	-	-	-	5,000

The museum is open to the public on Wednesday and Saturday afternoons.



SCHOLARSHIPS.

TUITION SCHOLARSHIPS.

A limited number of scholarships exempting the holders from the charge for tuition have been established by the Trustees, and are available, at the discretion of the President, for the use of deserving students who need pecuniary assistance.

In addition to these are the following:¹

THE JOHN EVANS SCHOLARSHIP.

This scholarship was founded by Mrs. Ann Evans in memory of her husband. The income is about one hundred dollars, and is given annually to that member of the Senior or Junior class who is named by the Board of Trustees, or by some authority to whom they may delegate the nomination. For this scholarship, only such students as are preparing themselves for the ministry, and are already licentiates in the Methodist Episcopal Church, can be candidates.

THE SQUIRE SCHOLARSHIP.

This scholarship was founded by Hon. Watson C. Squire, B. A. In accordance with its provisions, the income of \$5,000 is awarded to that member of the Senior class who passes the best examination in Greek, provided that the successful candidate devote the ensuing year to classical study, in residence in the University, or in connection with travel or residence abroad, at his option, subject to the approval of the Committee on Graduate Instruction.

THE JONES SCHOLARSHIP.

This scholarship was founded by Frank S. Jones, Esq. The income, amounting to fifty dollars, is available, at the discretion of the President, for the use of a deserving student who needs pecuniary assistance.

COLLEGE HONORS.

PRIZES.

The Harrington Prize, the gift of Rev. Edmund Mead Mills, D. D., in memory of Professor C. S. Harrington, is awarded for the best essay on some specified subject in the department of history. The subject for the essay of 1898 is The Effect of the Revolution of 1688 upon English Constitutional Theory.

The Joseph D. Weeks Prize, the gift of the late Joseph Dame Weeks, M. A., is awarded for the best essay on some specified subject in the department of economics. The subject for the essay of 1898 is The Origin of Protectionism in the United States. The essays must be left with the head of the department on or before the third Monday in May (May 16).

The Peirce Prize, the gift of Rev. Bradford K. Peirce, D. D., is awarded for excellence in natural science. It will be given in 1898 upon a special examination based on the course in chemistry marked I. in the present catalogue. The subject of the examination in 1899 will be biology; in 1900, geology.

The G. Brown Goode Prize, the gift of Mrs. G. Brown Goode, is awarded for the best original investigation in the department of natural history.

No person who has once taken either the Harrington, the Joseph D. Weeks, or the G. Brown Goode Prize, may compete for it again.

The Weeks Prize, the gift of the late Joseph Dame Weeks, M. A., is awarded for excellence in modern philosophy. It will be given in 1898 upon an examination in the courses in philosophy marked VII. and VIII. in the present catalogue, together with additional work to be assigned by the instructor.

A prize is awarded for excellence in Greek archæology. It will be given in 1898 upon a special examination in the course in Greek marked X. in the present catalogue.

The Camp Prize, the gift of Samuel T. Camp, Esq., is awarded for excellence in English literature. It will be given in 1898 upon a special examination in the course in English literature marked I. in the present catalogue.

The Johnston Prize, the gift of Rev. David G. Downey, M. A., in memory of Professor John Johnston, is awarded for excellence in electricity. It will be given in 1898 upon a special examination based on the course in physics marked VI. in the present catalogue.

The Spinney Prize, the gift of Mrs. Joseph Spinney, is awarded for excellence in Greek. It will be given in 1898 upon a special examination based in part upon the first half of the course in Greek marked II. in the present catalogue. A detailed statement may be found in the November *Bulletin*.

The Phi Beta Kappa Prize is awarded for excellence in Latin. An outline of the work to be done in competition for this prize may be found in the November *Bulletin*.

The Rice Prize, the gift of the late Rev. William Rice, D. D., is awarded for excellence in mathematics. It will be given in 1898 upon a special examination based upon the course in mathematics marked V. in the present catalogue.

Students who compete for either the Weeks, the Greek archæology, the Camp, the Johnston, the Spinney, the Phi Beta Kappa, or the Rice Prize must do so during the year in which they regularly pursue the course or courses on which the examination for the prize is based.

The Wise Prize, the gift of Rev. Daniel Wise, D. D., is awarded to that member of the Senior class who excels in moral philosophy.

The Walkley Prize, the gift of Webster R. Walkley, M. A.,—*in memoriam* David Hart Walkley, graduated June, 1878; died September 16, 1878,—is awarded to that member of the Junior class who excels in psychology.

The Sherman Prize, the gift of Rev. David Sherman, D. D., is awarded this year to that member of the Freshman class who excels in Latin. The work to be done in competition for this prize is outlined in the November *Bulletin*. The subject of the examination in 1899 will be Greek; in 1900, mathematics.

The Ayres Prize, the gift of Daniel Ayres, M. D., LL. D., is awarded to that member of the Freshman class who is found, upon special examination, to have attained the highest excellence in the studies preparatory to admission to the classical course.

The Rich Prize, the gift of Mrs. Isaac Rich, is awarded to that member of the Senior class whose oration at Commencement is deemed best in composition and delivery. Each oration must contain not more than twelve hundred words, and must be left with the Professor of English Literature on or before the second Tuesday preceding Commencement (June 14).

The Olin Prize, the gift of Mrs. Julia M. Olin, is awarded to that member of the Senior class who excels in English composition. The subject for the essay of 1898 is Thomas Carlyle as a Moral Force. The subject for the essay of 1899 is Alfred Tennyson. Essays must be left with the Professor of English Literature on or before the first Monday of the third term (April 18).

Two prizes are awarded, as a first and second prize respectively, to the two members of the Junior class who present the best orations at the annual Junior Exhibition. In the award of these prizes, both the composition and the delivery of the orations are considered. The orations must be left with the Professor of the English Language on or before the first Saturday in the third term (April 16).

The Briggs Prize, the gift of James E. Briggs, Esq., is awarded to that member of the Junior class who excels in debate.

The Parker Prize, the gift of Rev. John Parker, for excellence in elocution, is awarded to the best speaker in the Junior and Sophomore classes.

A second prize is awarded, in the same classes, for excellence in elocution; but, in the competition for it, selections of a dramatic character, and from poetry, are excluded.

The Hibbard Prize, the gift of Professor Ralph G. Hibbard, M. A., is awarded to that member of the Freshman class who excels in declamation.

The Taylor Prize, the gift of Rev. George Lansing Taylor, D. D., is awarded to that student who presents the best English poem. The poem must be left with the Professor of English Literature before the Senior examination.

The several Committees of Award will withhold any of the prizes, if, in their judgment, none of the exercises presented in competition for them possess the requisite merit.

AWARD OF PRIZES, 1896-97.

The Harrington Prize, to BURTON HOAG BROWNELL.

Committee of Award:—Professor Edward Gaylord Bourne, Ph. D., of Yale University.

The Joseph D. Weeks Prize, to FRANK WRIGHT BURR.

The Peirce Prize, to ALVENZA INGHAM SMITH.

The Weeks Prize, to FRANCIS REID NORTH.

The Prize in Greek Literature, to GEORGE BUSH MACCOMBER.

The Camp Prize, to GEORGE WILBUR OSMUN.

The Johnston Prize, to ARTHUR WELLINGTON PRICE.

The Spinney Prize, to PERCY CHILDS HILL.

Committee of Award:—Professor William Wells Eaton, M. A., of Middlebury College.

The Rice Prize, to ARCHER EVERETT YOUNG.

The Wise Prize, to FRANCIS REID NORTH.

The Walkley Prize, to ALLING PRUDDEN BEARDSLEY. Honorable mention, HAROLD HASTINGS.

The Sherman Prize, to LEROY ALBERT HOWLAND.

The Rich Prize, to EVA VIOLA AUSTIN and LEON KURTZ WILLMAN.

Committee of Award:—Professor Ammi Bradford Hyde, D. D., of Denver, Col.; Rev. Levi Gilbert, D. D., of New Haven; Hon. Jerome Fuller, of Taunton, Mass.

The Olin Prize, to FERRIS GREENSLET.

Committee of Award:—Hamilton Wright Mabie, L. H. D., of New York, N. Y.

The First Junior Exhibition Prize, to GEORGE WILBUR OSMUN.

Committee of Award:—Rev. Watson Lyman Phillips, D. D., of New Haven; Daniel Robinson Howe, B. A., of Hartford; John Halsey Buck, B. A., of Hartford.

The Second Junior Exhibition Prize, to GEORGE EDWARD ANDREWS.

Committee of Award:—Same as for the First Junior Exhibition Prize.

The Prize for Debate, to GEORGE BUSH MACCOMBER.

The Parker Prize, to MAE DEERING SMITH.

Committee of Award:—Rev. James Stoddard, M. A., of Middletown; Rev. John Walter Maynard, B. D., of New Britain; Rev. Thomas Simms, M. A., of South Manchester.

The Second Prize in Elocution, to BENJAMIN ERNEST SIBLEY.

The Hibbard Prize, to ROBERT EDWIN NIVISON.

Committee of Award:—Same as for the Parker Prize.

The Phi Beta Kappa Prize, to WARREN LANNING HOAGLAND, JR.

The Ayres Prize, for the current year, to BURTON HOWARD CAMP and WILLIAM HARRY CLEMONS, both prepared at the Hartford High School.

APPOINTMENTS FOR JUNIOR EXHIBITION AND COMMENCEMENT.

The speakers at the Junior Exhibition are selected according to the grade in composition and declamation subsequent to the Freshman year. The speakers at Commencement are selected according to the grade in composition and declamation subsequent to the Sophomore year. The number of speakers at each of these public exercises is limited to ten. The speakers last year were:—

AT THE JUNIOR EXHIBITION.

GEORGE EDWARD ANDREWS,	GEORGE WILBUR OSMUN,
ALFRED TREDWELL DAVISON,	BENJAMIN ERNEST SIBLEY,
GEORGE BUSH MACCOMBER,	WALTER HERBERT STEVENS.

AT COMMENCEMENT.

EVA VIOLA AUSTIN,	FRANCIS REID NORTH,
BURTON HOAG BROWNELL,	WILLIAM BARTON PRUNER,
JOHN GOWDY,	FREDERICK WILLIAM ROE,
IRVILLE CHARLES LE COMPTE,	EVAN LENN TAMBLYN,
LEON KURTZ WILLMAN.	

HONORS IN SCHOLARSHIP.

I. HONORS IN GENERAL SCHOLARSHIP.—Two grades of honor, designated respectively as honors and high honors, are conferred at graduation, based upon the general scholarship of the student throughout his whole course.

An honor in general scholarship is awarded to a student who has received a grade not below third on an aggregate of not less than 63 hours' work, as reckoned in the record of standings, has received first grade on a number of hours' work not less than the part of the 63 hours' work on which he has received third grade, and has not fallen below fourth grade on any study of the course.

A high honor in general scholarship is awarded to a student who has received a grade not below second on an aggregate of not less than 63 hours' work, has received first grade on an aggregate of 50 hours' work, and has not fallen below third grade on any study of the course.

II. PRELIMINARY HONORS.—Preliminary honors are awarded in the departments of classics and mathematics at the end of the Sophomore or of the Junior year, and no student can receive special honors at graduation in Greek, Latin, or mathematics, who has not previously received the corresponding preliminary honors. Notice of candidacy for preliminary honors must be given to the senior officer of the department, and to the Secretary of the Faculty, as early as the first Monday of the third term of the year in which the candidate proposes to present himself for the special examination (April 18). The case of each candidate is decided by the Faculty. The special regulations concerning the award of preliminary honors are as follows:—

Classics.—1. The candidate must not fall below third grade, and must maintain an average standing of second grade, in the following courses:—I., II., and III. Greek, and in Latin I., VII., and any two of the Courses II., III., IV., V.

2. He must also pass with distinction a special examination, held near the end of the academic year, and designed to test (*a*) his ability to translate Greek and Latin into English at sight, and (*b*) his knowledge of Greek and Latin grammar, and of Greek and Roman antiquities, mythology, and political and literary history.

Mathematics.—1. The candidate must not fall below third grade, and must maintain an average standing of second grade, in the required course in mathematics, and in such elective courses, amounting to

not less than five hours a week, as may be approved by the head of the department. Courses II. and V. are recommended.

2. He must pass with distinction a special examination, held near the end of the academic year, which may cover the entire field of his mathematical knowledge.

III. HONORS IN SPECIAL DEPARTMENTS AT GRADUATION.—Two grades of special honor, designated respectively as honors and high honors, are awarded at graduation in each of the following departments:—

Latin; Greek; German; Romance Languages; English; History; Economics and Social Science; Philosophy; Mathematics; Physics; Chemistry; Geology; Biology.

The conditions upon which special honors in these departments are awarded are as follows:—

(1) The candidate must apply to the officer in charge of the department in which he proposes to take honors, and to the Secretary of the Faculty, not later than the first Monday of the third term in the Junior year (April 18).

(2) He must pass at the regular or special examinations in such studies of the college course as are prescribed for honors in the several departments by the schedule given below; and in such studies he must not fall below third grade, and must maintain an average standing of second grade after the beginning of the Sophomore year, or must receive first grade in all of the prescribed studies which he takes after the beginning of his Junior year.

(3) In addition to the studies regularly prescribed by the schedule below, the candidate must pursue such a course of collateral reading or investigation as is prescribed by the officer in charge of the department, with the approval of a committee of the Faculty. The evidence of his proficiency in this collateral course is given by an examination, oral or written, by a thesis or essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as may be prescribed by the officer of the department, with the approval of a committee of the Faculty. The case of each candidate is decided by the Faculty.

(4) In addition to other requirements, every candidate for special honors is required to pass a *general examination* covering the whole field of study in the department in which the honor is given; this examination is oral, and is conducted in the presence of a committee of the Faculty.

(5) No student is awarded special honors who fails to pass in any study of the last two years of the course.

(6) No examination for special honors is given, and no thesis or other work in preparation for special honors is received, after the second Saturday preceding Commencement (June 18).

The conditions upon which high special honors are awarded are the same as for special honors, with the addition of the following requirements:—

The candidate must receive first grade in all of the prescribed studies which he takes after the beginning of his Sophomore year; and his examinations and other tests must show an exceptionally clear and comprehensive understanding of the studies of the department, and give promise of capacity for independent work.

The following schedule gives the studies required of candidates for special honors in the several departments:—

Latin.—1. So many of the courses in Latin as will amount in the aggregate to not less than twenty hours a week.

2. Courses I. and II. in Greek.

[Candidates for special honors in Latin at graduation are requested to announce their candidacy as early as the beginning of the Junior year.]

Greek.—1. Courses I.–VII., and either Course VIII. or Course XI. in Greek.

2. Course I., and in Latin any two of Courses II.–V.

German.—1. Courses I.–III., and IV.–VI. or VII. and VIII. in German.

2. Courses I. and II. in French.

3. Course I. in English Literature, or Course IV. in English Language.

Romance Languages.—1. Courses I.–IV. in French, and the elementary course in Italian.

2. Courses I. and II. in German.

English.—1. The required courses in English, including composition.

2. One of the following groups of elective courses:—

(a.) Courses IV. and VI. in English Language, and Courses I., IV., and either II. or III. in English Literature.

(b.) Courses IV. and VI. in English Language, Course I. in English Literature, and Courses I. and II. in German.

(c.) Courses I., IV., and either II. or III. in English Literature. Course IV. in English Language, and Courses II. and III. in History.

(d.) Courses I., IV., and either II. or III. in English Literature. Courses II. and III. in History, and any three of the courses in German, French, or Italian.

History.—1. All the courses in History.

2. The required course, and one elective course, in Economics and Social Science.

Economics and Social Science.—1. Any five of the courses in Economics and Social Science.

2. Courses I., II., and III. in History.

Philosophy.—1. All the courses in Philosophy.

2. The course in Ethics.

3. The course in Theism, or Course I. in Biology.

Mathematics.—1. The required course in Mathematics.

2. Elective courses in Mathematics and Astronomy, amounting in the aggregate to not less than fifteen hours a week.

3. Course I. in Physics.

[Prospective candidates for special honors in Mathematics at graduation are advised to take Course V. in Mathematics in the Sophomore year.]

Physics.—1. Course I. in Physics.

2. Two years of Practical Physics (in at least one of which there shall be three exercises a week).

3. Not less than three of the following courses:—IV., V., VI., IX., X., XI. Physics, and XI. Mathematics.

4. Course I. in Chemistry.

5. Either Course III. in Chemistry or Course V. in Mathematics.

Chemistry.—1. Courses I.–V. and IX. in Chemistry (three exercises a week being required in Course III.).

2. Course I. in Physics, and one year of Practical Physics; or Course VI. in Chemistry, and Courses I. and V. in Biology.

Geology.—1. Courses I.–VI. in Geology.

2. The elementary course in Astronomy.

3. Courses III. and IV. in Biology.

4. Not less than two of the following courses:—V. and VI. Biology, III. and IV. Chemistry, and V. Physics.

Biology.—1. Courses I.-VI. in Biology.

2. Courses I. and IV. in Geology.

3. Course III. in Chemistry.

[Candidates for special honors in Biology at graduation are recommended to take at least one summer course in the Marine Laboratory at Cold Spring Harbor.]

In all cases in which the foregoing schedule allows option between two or more courses or groups of courses, the student's selection must be subject to the approval of the head of the department in which he proposes to take honors.

In special cases a candidate for honors may be allowed to substitute other courses for those named in the foregoing schedule, by vote of the Faculty, on recommendation of the head of the department.

An honor of any of the kinds and grades mentioned may be conferred on a student sufficiently meritorious, by vote of the Faculty, even though his record of standing does not completely fulfill the requirements stated above.

The names of those students who take preliminary honors are announced on the Monday preceding Commencement (June 27).

The names of students who take honors at graduation, whether general or special, are printed on the Commencement programme.



AWARD OF HONORS, 1896-97.

HONORS IN GENERAL SCHOLARSHIP.

HIGH HONORS.

EVA VIOLA AUSTIN,	FREDERICK WILLIAM ROE,
IRVILLE CHARLES LE COMPTE,	MARY LAWTON WESTGATE.

HONORS.

MARY ABBIE ADAMS,	FRANCIS REID NORTH,
REUBEN NELSON BENNETT,	ALVENZA INGHAM SMITH,
CARRIE TAPPAN BROWN,	MINNIE ROSE SNOW,
CHARLES HARVEY BROWN,	CORNELIA HADDON STONE,
MARY GRACE BUNNELL,	WILLIAM ELI DAVIS STONE,
LIZZIE EMMA DUFFORD,	EVAN LENN TAMBLYN,
WILLIAM GILL GIFFIN,	ELIZABETH WILLIAMS,
JOHN GOWDY,	LEON KURTZ WILLMAN,
FERRIS GREENSLET,	ELIZABETH CARAMOSSO WRIGHT,
CORNELIA AUGUSTA MEEKS,	CARRIE MAY YALE.

HONORS IN SPECIAL DEPARTMENTS.

HIGH HONORS.

English.

FERRIS GREENSLET. The works of Robert Browning. Thesis:
 "Love in Browning's Poetry as a Motive in Life and an
 Argument in Religion."

HONORS.

English.

MARY GRACE THOMPSON. Studies in the poetry of Wordsworth.
 Thesis: "The Political and Social Ideals of Wordsworth."

Romance Languages.

MARY ABBIE ADAMS. *La Divina Commedia di Dante.* Thesis: "Dante's Theories of the Relations between Church and State."

CARRIE TAPPAN BROWN. *La Divina Commedia di Dante.* Thesis: "The State of Politics in Italy in the Time of Dante."

IRVILLE CHARLES LE COMPTE. Schwann, *Grammatik Des Altfranzösischen*; Bartsch, *Chrestomathie de l'Ancien Français*; *Chanson de Roland.* Thesis: "Social Customs of the Middle Ages as seen in the *Chanson de Roland.*"

Mathematics.

MINNIE ROSE SNOW. *The Theory of Equations.*

WILLIAM ELI DAVIS STONE. *Studies in the Theory of Surfaces.*

Biology.

CHARLES THOMAS BEERS. Thesis: "The Minute Anatomy of Pecten."

CORNELIA HADDON STONE. Thesis: "The Minute Anatomy of the Honey Bee."

PRELIMINARY HONORS.

Mathematics.—ARTHUR EVERETT YOUNG.



DEGREES.

The following degrees are conferred by the University, in course:—

BACHELOR OF ARTS.—This degree is conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Classical Course.

BACHELOR OF PHILOSOPHY.—This degree is conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Latin-Scientific Course.

BACHELOR OF SCIENCE.—This degree is conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Scientific Course.

The baccalaureate degree is awarded *summa cum laude* to a student who takes high honors both in general scholarship and in one or more departments; *magna cum laude*, to a student who takes a high honor either in general scholarship or in one or more departments; *cum laude*, to a student who takes an honor either in general scholarship or in one or more departments.

MASTER OF ARTS AND MASTER OF SCIENCE.—The degrees of Master of Arts and Master of Science are conferred in accordance with the following regulations:—

1. The degree of Master of Arts is conferred upon Bachelors of Arts of Wesleyan University, of at least one year's standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued in residence for a period of not less than one year. This course of study is under the full direction of a Committee of the Faculty on Graduate Instruction, composed of three permanent members with the addition of the instructor in charge of each department in which the candidate pursues work. Evidence of the candidate's proficiency in the approved studies is given by an examination, oral or written, by a thesis or an essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these

methods combined, as the Committee may prescribe. All such tests of proficiency are under the direction of the Committee, and they report to the Faculty proper candidates for the degree.

2. In the case of Bachelors of Arts of other colleges whose course of study is accepted as sufficient by the Committee on Graduate Instruction, or who pass such additional examinations as the Committee prescribes, the degree of Master of Arts is conferred on the conditions prescribed in the case of Bachelors of Arts of Wesleyan University pursuing a course of study in residence.

3. The degree of Master of Arts is also conferred upon Bachelors of Arts of Wesleyan University, of at least three years' standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued *in absentia*, and equivalent in amount to that prescribed in the case of resident graduate students; and in all other particulars the same regulations hold in the case of non-residents as in the case of resident students. The degree is also conferred upon Bachelors of Arts of Wesleyan University, of two years' standing, at the satisfactory conclusion of a course of study pursued *in absentia*, on the conditions above specified, provided that the candidate has spent the two years in resident study in a non-professional department of some other university.

4. The degree of Master of Science is conferred upon Bachelors of Philosophy and Bachelors of Science, whether of this or of other colleges, under the same conditions which govern in the case of the degree of Master of Arts.

5. A fee of ten dollars is required from each graduate student upon promotion to the Master's degree.

Communications from prospective graduate students regarding the Master's degree should be addressed, in the first instance, to Professor Merrill, the secretary of the Committee on Graduate Instruction.



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(LAST COMMENCEMENT.)

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PAUL LIVINGSTONE WOOLSTON.	

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FRANKLIN BARBER, B. A., 1893. Subjects: Mathematics and Physics.
 Thesis: "On Some Properties of Dupin's Cyclide."
 GEORGE HUBBARD BLAKESLEE, B. A., 1893. Subjects: European
 and American History.
 ERNEST KETCHAM SMITH, B. A., 1895. Subject: English Literature.
 Thesis: "A Study of Wordsworth's Poetic Consistency."

THE DEGREE OF M. S. ON EXAMINATION WAS CONFERRED ON:

FREDERICK KNIFFEN, B. S., 1895. Subject: Organic Chemistry.
 Thesis: "Paraisobutylphenoxyacetic Acid and its Derivatives."
 VIDA FRANK MOORE, PH. B., 1893. Subject: Studies in Modern
 Philosophy. Thesis: "A Comparison of the Views of
 Reid and Lotze concerning *a priori* Principles."

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ALUMNI RECORD.

ALUMNI RECORD.—Through the liberality of Orange Judd, M. A., a Biographical Record of the Alumni of the University was published in 1869. A third edition of this Record, revised and corrected, was issued in June, 1883.

This edition contains not only the record of Alumni, revised and corrected to the date of publication, but also a list of all former students not graduates, with their residences, and such other information with reference to them as the most thorough search could obtain. It also includes a Bibliographical Record, showing all the more important literary and scientific work done by Alumni and members of the Faculty. Copies of this edition may be had on application to the librarian, W. J. James. The price of the Record when sent by mail is one dollar.

A second edition of the Supplement to the Alumni Record, containing an alphabetical list of the living graduates, with their honorary and professional degrees, their occupations, and their addresses, was published in August, 1895.

Information in regard to changes of address of Alumni or in regard to any other facts suitable for future editions of the Record, is earnestly solicited. All who can furnish such information are requested to communicate with Professor F. W. Nicolson.

NECROLOGY.—A list of deceased graduates of the University is published annually in the *Bulletin*. All persons who can supply information appropriate to future lists, are urgently requested to communicate the same to Professor F. W. Nicolson.

EMPLOYMENT BUREAU.—An employment bureau has been established in the office of the Secretary of the Faculty, for the purpose



of securing positions as teachers for graduates of the college, and to provide opportunities for undergraduates to earn money towards paying their college expenses, by work in Middletown during term time, or in Middletown or elsewhere during the summer vacation. Those who wish to avail themselves of the opportunity thus offered are invited to register; and the Alumni and friends of the college are urgently requested to inform the Secretary of any vacancy coming to their notice which might be filled by a Wesleyan student or graduate. No fees are charged.



CALENDAR.

1897.

- Sept. 30, Thursday—First Term began.
 Nov. 24-28, Thanksgiving Recess.
 Dec. 23, Thursday—First Term will close.

1898.

CHRISTMAS RECESS.

- Jan. 4, Tuesday—Second Term will begin.
 Jan. 27, Thursday—Day of Prayer for Colleges,—a holiday.
 Feb. 7-19, Mid-year Examinations.
 Feb. 22, Tuesday—Washington's Birthday,—a holiday.
 April 6, Wednesday—Second Term will close.

SPRING RECESS.

- April 12, Tuesday—Third Term will begin.
 April 16, Saturday—Last day for presenting Junior Exhibition Essays.
 April 18, Monday—Last day for presenting Olin Prize essays.
 April 18, Monday—Last day for presenting applications for Preliminary and Special Honors.
 April 28, Thursday—Junior Exhibition.
 May 16, Monday—Last day for presenting Joseph D. Weeks Prize Essays.
 June 2, Thursday—Prize Debate.
 June 6, Monday—Senior Examination will commence.
 June 13, Monday—Annual Examination will commence.
 June 14, Tuesday—Last day for presenting Rich Prize Essays.
 June 18, Saturday—Last day for receiving Special Honor Theses, and for Special Honor Examinations.

- June 24, Friday—Prize Declamations.
June 26, Sunday morning—Baccalaureate Sermon.
June 26, Sunday evening—University Sermon.
June 27, Monday—Announcement of Award of Prizes.
June 27, Monday—Class Day.
June 27, Monday evening—Meeting of the Board of Trustees.
June 28, Tuesday—Business Meeting of the Alumni Association.
June 28, Tuesday—Reunion of Classes of 1848, '73, '83, '88, '91, '95.
June 28, Tuesday—Anniversaries of the Literary Societies.
June 29, Wednesday—COMMENCEMENT.
June 30, Thursday—Examination of candidates for admission will begin.

VACATION OF THIRTEEN WEEKS.

- Sept. 27, Tuesday—Special Examination for students deficient at Annual Examination.
Sept. 28, Wednesday—Examination of candidates for admission will begin.
Sept. 29, Thursday—First Term will begin.



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WESLEYAN UNIVERSITY.

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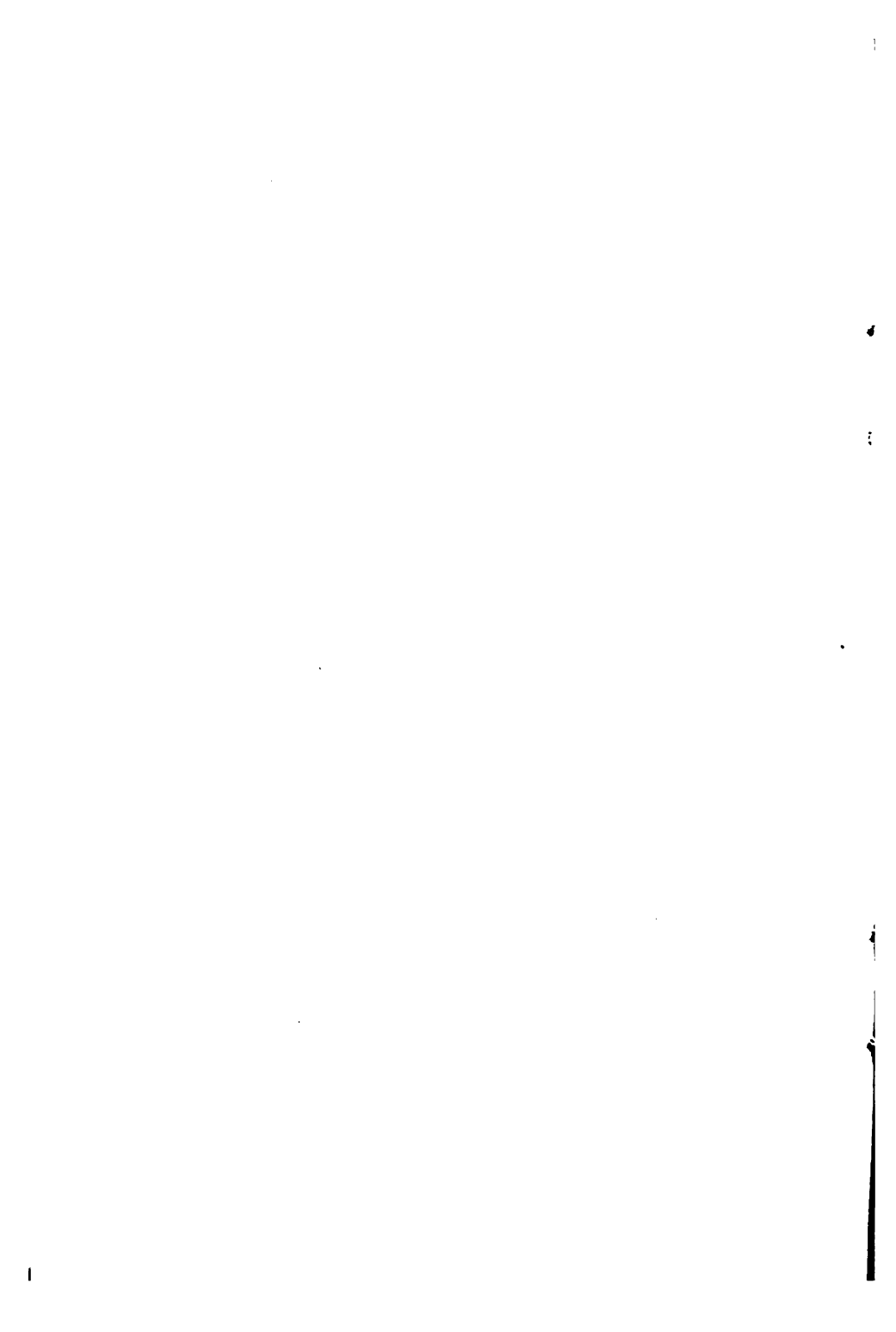
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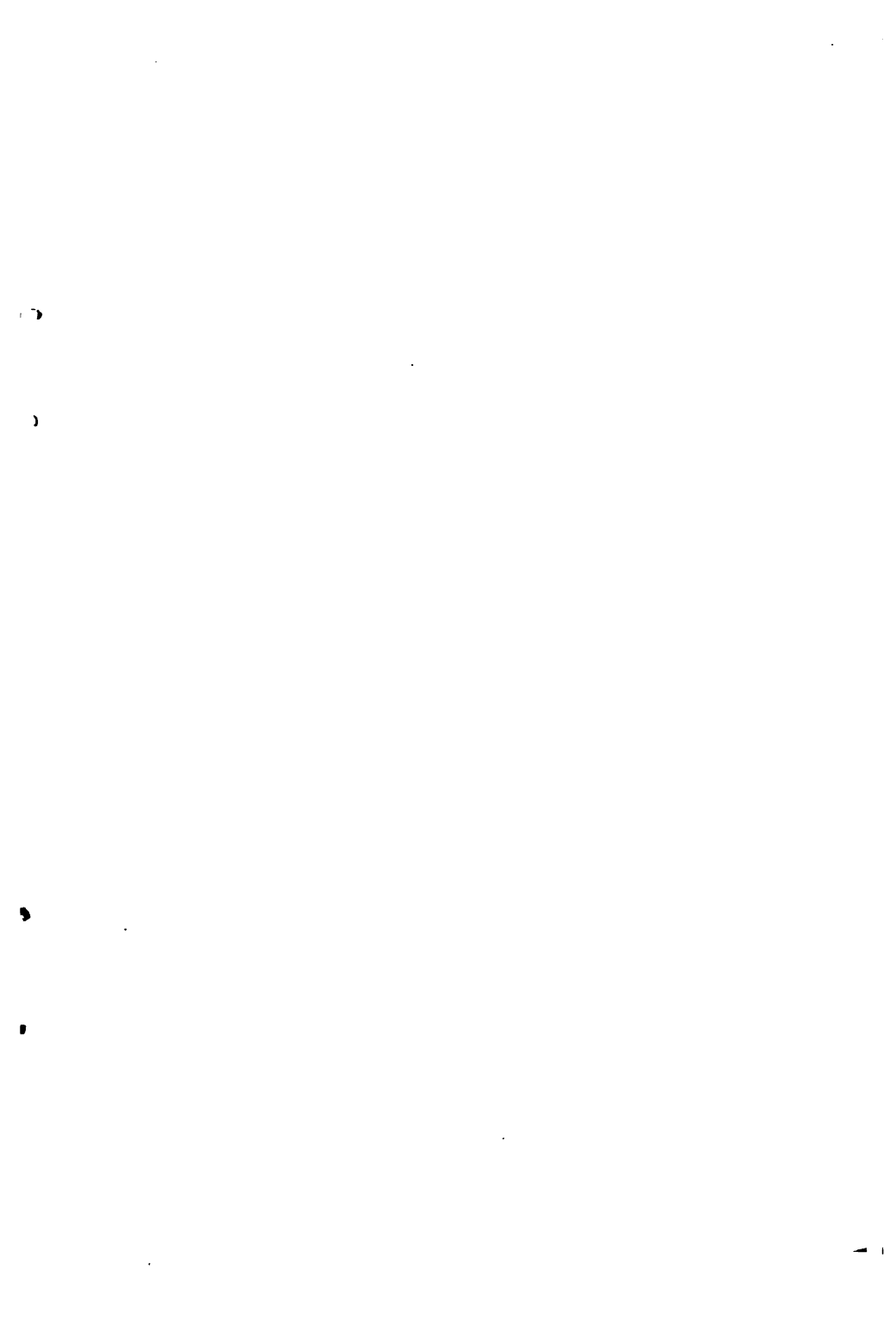
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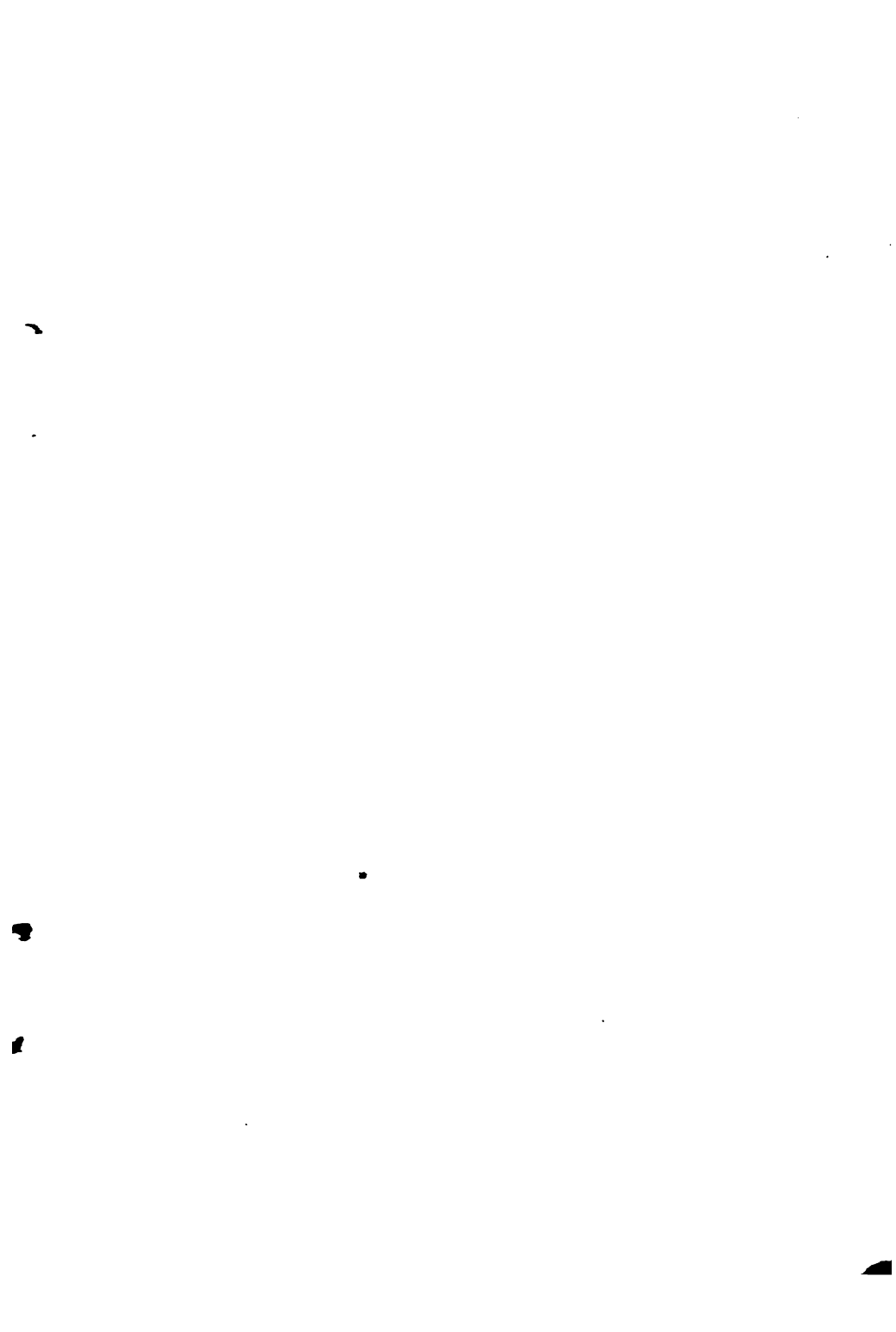
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Lewis F Bowdish,	<i>New York, N. Y.</i>	43 N. C.
§ Annie Strong Brown,	<i>Middletown.</i>	<i>3 Cottage Ave.</i>
* § Julian Everett Burr,	<i>Thomaston.</i>	B. O. II. House.
Herman August Buschek,	<i>Rochester, N. H.</i>	25 N. C.
Burton Howard Camp,	<i>Hartford.</i>	<i>11 College Pl.</i>
§ May Weir Church,	<i>Middletown.</i>	<i>274 High St.</i>
Franklin Halstead Clapp,	<i>New York, N. Y.</i>	38 N. C.
Thomas James Clark, Jr.,	<i>Paterson, N. J.</i>	14 N. C.
Alfred Samuel Clayton,	<i>Frankfort, N. Y.</i>	<i>11 College Pl.</i>
William Harry Clemons,	<i>Hartford.</i>	38 N. C.
Thomas Sparks Cline,	<i>Wenonah, N. J.</i>	<i>250 High St.</i>
† Luther Gardner Coburn,	<i>Newport Centre, Vt.</i>	17 N. C.
Albert Lloyd Cooper,	<i>Hawley, Pa.</i>	B. O. II. House.
† Roberta Corscaden,	<i>Middletown.</i>	<i>238 High St.</i>
† John Washington Davitt,	<i>Troy, N. Y.</i>	X. Ψ. Lodge.
John A Decker, Jr.,	<i>Hartford.</i>	B. O. II. House.
† Harriman Cleveland Dodd,	<i>Middletown.</i>	<i>Burr Ave.</i>
† Clyde Roy Dodds,	<i>Reading, Pa.</i>	Ψ. Y. House.
§ Solon Arthur Dodds,	<i>Reading, Pa.</i>	Ψ. Y. House.
† Charles Sherman Farnham,	<i>Collinsville.</i>	17 N. C.
Luther Hayward Frost,	<i>Potsdam, N. Y.</i>	Ψ. Y. House.
Isaac Newton Garman,	<i>Nanticoke, Pa.</i>	31 N. C.
Albert Smith Gordon,	<i>Hazardville.</i>	B. O. II. House.

* Deceased.

NAMES.	RESIDENCES.	ROOMS.
Emmett Wells Gould,	<i>Goulds, N. Y.</i>	20 N. C.
Lee Foster Hartman,	<i>Fort Wayne, Ind.</i>	Φ. Y. House.
§ Ilga Frances Ray Harvey,	<i>Middletown.</i>	149 Church St.
Walter Nickerson Hill,	<i>Newport, R. I.</i>	A. Δ. Φ. House.
† Robert Lavater Hirschfeld,	<i>Meriden.</i>	240 High St.
§ Louis Harman Hitchler,	<i>Wilkes-Barre, Pa.</i>	4 N. C.
§ Stephen Benjamin Hoyt, Jr.,	<i>New Canaan.</i>	B. Θ. Π. House.
Marie Rosalie von Essen Hubert,	<i>New Britain.</i>	274 High St.
Cleveland Archer Ives,	<i>Meriden.</i>	248 High St.
Roy Humiston Jones,	<i>Brooklyn, N. Y.</i>	250 High St.
§ May Elizabeth Kenneally,	<i>Middletown.</i>	275 Main St.
† Harry Clifford Lane,	<i>Meriden.</i>	246 High St.
George Francis Lee,	<i>Brooklyn, N. Y.</i>	51 Wyllys Ave.
Lester Edward Lynde,	<i>Westminster, Mass.</i>	11 College Pl.
§ Arthur John Meredith,	<i>Lowell, Mass.</i>	X. Φ. Lodge.
Benjamin Franklin Meredith,	<i>S. Farms.</i>	S. Farms.
§ Robert James Merriam,	<i>Meriden.</i>	60 N. C.
† Lena Zerviah Newton,	<i>Woodbridge.</i>	274 High St.
William Percival Ogden,	<i>Bristol.</i>	X. Φ. Lodge.
Dudley Baldwin Palmer,	<i>New York, N. Y.</i>	44 N. C.
§ Olin Frederick Parent,	<i>Bondsville, Mass.</i>	X. Φ. Lodge.
† Richard Granville Povey,	<i>New London.</i>	20 N. C.
§ Walter J Randolph,	<i>Rushville, N. Y.</i>	246 High St.
William Chauncey Rice,	<i>Springfield, Mass.</i>	31 College Pl.
John Brockway Rippere,	<i>Torrington.</i>	X. Φ. Lodge.
† Edith Ladora Risley,	<i>Hartford.</i>	274 High St.
§ Herbert Holden Sawyer,	<i>Boston, Mass.</i>	248 High St.
† Frank Peter Scheffer,	<i>Meriden.</i>	58 Wyllys Ave.
† Charlotte Maria Seabury,	<i>Little Compton, R. I.</i>	238 High St.
Charles Halberton Seward,	<i>West Pittston, Pa.</i>	28 N. C.
§ Carl Curtis Stickney,	<i>Canaan, N. H.</i>	58 Wyllys Ave.
Arthur Newman Tasker,	<i>Washington, D. C.</i>	37 N. C.
Josiah Willard Taylor,	<i>N. Wayne, Me.</i>	Φ. P. House.
Charles Horton Terry,	<i>Brooklyn, N. Y.</i>	Φ. P. House.
Walter Raymond Terry,	<i>Patchogue, N. Y.</i>	B. Θ. Π. House.
† Thomas Travis,	<i>Bloomfield, N. J.</i>	16 N. C.
James Herbert Tuckley,	<i>Binghamton, N. Y.</i>	Φ. P. House.
Fredrika Van Benschoten,	<i>Middletown.</i>	231 High St.

NAMES.	RESIDENCES.	ROOMS.
† Frank Bertram Wade,	<i>New Bedford, Mass.</i>	<i>Lawn Ave.</i>
† Charles Elmer Waldron,	<i>Nyack-on-Hudson, N. Y.</i>	16 N. C.
§ Herbert Cooper Ward,	<i>Glidden, Iowa.</i>	43 N. C.
§ J. Myra Wilcox,	<i>Westfield.</i>	274 High St.
Willard Warren Wilsey,	<i>Philadelphia, Pa.</i>	4 N. C.
Joseph Clark Winans,	<i>Ocean Grove, N. J.</i>	Φ. P. House.
Ernest Albert Yarrow,	<i>Fall River, Mass.</i>	66 Wyllys Ave.
Theodore Basil Young,	<i>Huntsville, N. J.</i>	Φ. P. House.

FRESHMAN CLASS.

NAMES.	RESIDENCES.	ROOMS.
§ Everett Gunner Ackart,	<i>Schaghticoke, N. Y.</i>	39 N. C.
Alice Lockwood Adams,	<i>Wethersfield.</i>	274 High St.
§ Morris Ezra Alling,	<i>Northford.</i>	58 Wyllys Ave.
Robert Avery Anderson,	<i>Mt. Vernon, N. Y.</i>	55 N. C.
Alfred Miller Bailey,	<i>Emporia, Kan.</i>	46 N. C.
Burton John Baldwin,	<i>Woodbridge.</i>	58 Wyllys Ave.
† Robert Louis Banister,	<i>Newark, N. J.</i>	31 N. C.
Marshall Bevin,	<i>East Hampton.</i>	301 College St.
† Eldora Josephine Birch,	<i>East Hartford.</i>	274 High St.
Ralph Nelson Birdsall,	<i>N. Tarrytown, N. Y.</i>	199 S. Main St.
John Carpenter Bohlmann,	<i>Falls Village.</i>	39 N. C.
§ Wallace L. Bonham,	<i>Osceola, Pa.</i>	88 Wyllys Ave.
William Wallace Bruce,	<i>Port Norfolk, Va.</i>	49 N. C.
William Greene Buchanan,	<i>Camden, N. J.</i>	301 College St.
Harry Winter Bugbee,	<i>Monson, Mass.</i>	246 High St.
§ Isaac Squire Carroll,	<i>Hobart, N. Y.</i>	29 N. C.
James Joseph Cogan,	<i>Stamford.</i>	B. O. II. House.
† Maude Viola Cole,	<i>Middletown.</i>	42 Hubbard St.
Webb Gardner Cooper,	<i>Oswego, N. Y.</i>	61 N. C.
§ James Albert Corscaden,	<i>Middletown.</i>	63 N. C.
Samuel Fuller Crowell,	<i>Roslindale, Mass.</i>	31 College Pl.
§ Ralph Spaldin Cushman,	<i>Poultney, Vt.</i>	33 N. C.

NAMES.	RESIDENCES.	ROOMS.
Bertha Isabelle Dagnall,	<i>Portland.</i>	<i>274 High St.</i>
Dora Wilhelma Davis,	<i>Middletown.</i>	<i>49 Crescent St.</i>
Otto Watson Davis,	<i>Seymour.</i>	<i>14 N. C.</i>
§ Susie Augustine de Angelis,	<i>Cheshire.</i>	<i>274 High St.</i>
§ James Marshall Dearborn,	<i>Middletown.</i>	<i>Pine St.</i>
Jerry Josiah De Frehn,	<i>Hazleton, Pa.</i>	<i>51 Wyllys Ave.</i>
† Lewis Edwin De Laney,	<i>Sayre, Pa.</i>	<i>47 N. C.</i>
§ Louis Napoleon Denniston,	<i>New Paltz, N. Y.</i>	<i>50 N. C.</i>
Orville Strang Duffield,	<i>Camden, N. J.</i>	<i>250 High St.</i>
Franklin Stiles Durston,	<i>Skaneateles, N. Y.</i>	<i>46 N. C.</i>
§ Alice Winifred English,	<i>Farmington.</i>	<i>238 High St.</i>
† Wilfrid Stedman Fisher,	<i>West Brattleboro, Vt.</i>	<i>49 N. C.</i>
Philip Prescott Frost,	<i>Newark, N. J.</i>	<i>41 N. C.</i>
§ Ernest Solomon Fuller,	<i>Somers.</i>	<i>246 High St.</i>
§ Lottie Graham Geer,	<i>Middletown.</i>	<i>539 High St.</i>
§ Charles William Geoghegan,	<i>Little River.</i>	<i>Little River.</i>
§ Mabelle Cheney Grant,	<i>Meriden.</i>	<i>274 High St.</i>
§ Katharine Louise Griswold,	<i>Hartford.</i>	<i>238 High St.</i>
§ Margaret Griswold,	<i>S. Wethersfield.</i>	<i>274 High St.</i>
Francis Tobey Hall,	<i>Dennis, Mass.</i>	<i>6 N. C.</i>
§ Sarah Currie Hallock,	<i>Middletown.</i>	<i>282 William St.</i>
† Axel Hanson,	<i>Selden, N. Y.</i>	<i>15 N. C.</i>
§ Benjamin Warren Harriman, Jr.,	<i>Kent's Hill, Me.</i>	<i>246 College St.</i>
§ Pauline Harris,	<i>Pontiac, Mich.</i>	<i>182 Washington St.</i>
William Gray Harris,	<i>Poultney, Vt.</i>	<i>33 N. C.</i>
§ Robert Culver Hartzell,	<i>New York, N. Y.</i>	<i>A. D. Φ. House.</i>
† Carl Tilden Hatch,	<i>St. Albans, Vt.</i>	<i>41 N. C.</i>
Olin Fisk Herrick,	<i>Auburndale, Mass.</i>	<i>19 N. C.</i>
Robert Smyth Holden,	<i>Napa, Cal.</i>	<i>248 High St.</i>
James Hyde,	<i>Toronto, Can.</i>	<i>88 Wyllys Ave.</i>
Alexander James Inglis,	<i>Middletown.</i>	<i>295 William St.</i>
§ Harry James Inglis,	<i>Middletown.</i>	<i>176 Main St.</i>
Edward Andrews Ingraham,	<i>Brooklyn, N. Y.</i>	<i>11 College Pl.</i>
§ Augusta Theresa Jones,	<i>Middletown.</i>	<i>8 Huber Ave.</i>
§ Margaret Rose Kenefick,	<i>Middletown.</i>	<i>283 Washington St.</i>
§ George Lawton,	<i>Middletown.</i>	<i>146 Broad St.</i>
Ernest Morse Libby,	<i>Gorham, Me.</i>	<i>35 N. C.</i>
§ Howard Victor Littell,	<i>Oxford, N. Y.</i>	<i>51 N. C.</i>

NAMES.	RESIDENCES.	ROOMS.
† George Briggs Lufkin,	<i>Rumford Center, Me.</i>	12 N. C.
† Walter St. Leger McDowell,	<i>Middletown.</i>	72 <i>Loveland St.</i>
§ Ida Lizzie Macfarlane,	<i>Waterloo, Que., Can.</i>	22 <i>Berlin St.</i>
Hugh Darwin Maydole,	<i>Steuben, N. Y.</i>	61 N. C.
† Fred Marlin Meader,	<i>N. Haverhill, N. H.</i>	88 <i>Wyllys Ave.</i>
† Clifford Delegar Meeker,	<i>Orange, N. J.</i>	30 N. C.
§ Mary Louise Miles,	<i>New Britain.</i>	274 <i>High St.</i>
§ George Dickey Mills,	<i>Middletown.</i>	94 <i>Pearl St.</i>
† Thomas Henry Montgomery,	<i>S. Manchester.</i>	210 <i>High St.</i>
James Wiswall Mudge,	<i>Natick, Mass.</i>	19 N. C.
Fannie Myerson,	<i>New Britain.</i>	274 <i>High St.</i>
Carl Samuel Neumann,	<i>New Britain.</i>	13 N. C.
Robert Brewer Newell,	<i>Hartford.</i>	B. O. II. <i>House.</i>
§ Clarence Lucian Newton,	<i>Evansville, Vt.</i>	11 N. C.
Wilber Edward Newton,	<i>Evansville, Vt.</i>	11 N. C.
Elizabeth Parkhurst Peck,	<i>E. Haddam.</i>	246 <i>William St.</i>
† Clarence Albert Pierce,	<i>Roxbury.</i>	15 N. C.
† Moses Kellum Pike,	<i>Salisbury, Mass.</i>	<i>Lawn Ave.</i>
Harrie Albert Pratt,	<i>Essex.</i>	13 N. C.
Carl Fowler Price,	<i>Sing Sing, N. Y.</i>	50 N. C.
§ Emma Elizabeth Redlin,	<i>Center Moriches, N. Y.</i>	274 <i>High St.</i>
Ernestine Rose,	<i>Bridge Hampton, N. Y.</i>	238 <i>High St.</i>
George D Ryder,	<i>Cobleskill, N. Y.</i>	51 N. C.
Arthur Jay Scofield,	<i>Norwalk.</i>	36 N. C.
Irving Frank Scofield,	<i>Norwalk.</i>	36 N. C.
Norman Keator Silliman,	<i>Hobart, N. Y.</i>	29 N. C.
† Arthur William Stark,	<i>Stamford.</i>	B. O. II. <i>House</i>
Edward Cyrus Stone,	<i>Gorham, Me.</i>	8 N. C.
Frank Vanhaag Stutsman,	<i>Harrisburg, Pa.</i>	51 <i>Wyllys Ave.</i>
Hubert Nelson Terrell,	<i>E. Quogue, N. Y.</i>	12 N. C.
James Voorhees Thompson,	<i>Buffalo Run, Pa.</i>	51 <i>Wyllys Ave.</i>
§ Samuel Moore Thompson,	<i>Philadelphia, Pa.</i>	55 N. C.
Everett Lynn Thorndike,	<i>Lynn, Mass.</i>	250 <i>High St.</i>
Oliver Rawson Underhill,	<i>Ipswich, Mass.</i>	6 N. C.
§ Fanny Terry Van Scoy,	<i>Middletown.</i>	270 <i>William St.</i>
† May Talmage Van Scoy,	<i>Middletown.</i>	270 <i>William St.</i>
John Carroll Wallace,	<i>New York, N. Y.</i>	Φ. P. <i>House.</i>
§ William Bryse Walter,	<i>Pittston, Pa.</i>	27 N. C.

NAMES.	RESIDENCES.	ROOMS.
† Carl Griswold Warner,	<i>Rocky Hill.</i>	<i>88 Wyllys Ave.</i>
Henry Gordon Wells,	<i>Middletown.</i>	<i>Lawn Ave.</i>
Orion Vassar Wells, •	<i>Bakersfield, Vt.</i>	<i>47 N. C.</i>
§ Elmer Schall Welsh,	<i>York, Pa.</i>	<i>Φ. P. House.</i>
§ David Gifford Willets,	<i>Egg Harbor City, N. J.</i>	<i>A. Δ. Φ. House.</i>
Jessie Marion Winans,	<i>Middletown.</i>	<i>Pine St.</i>

SPECIAL STUDENTS.

NAMES.	RESIDENCES.	ROOMS.
Alfred Clarence Arnold,	<i>St. Johnsbury, Vt.</i>	<i>B. Θ. Π. House.</i>
Laura Alice May Bohlmann,	<i>Falls Village.</i>	<i>274 High St.</i>
Frederick William Broatch,	<i>Middletown.</i>	<i>62 N. C.</i>
John Greenleaf Webb Havens,	<i>Tom's River, N. J.</i>	<i>44 N. C.</i>
Frank Miller Horr,	<i>Springfield, Mass.</i>	<i>250 High St.</i>
Ella Augusta Johnson,	<i>Bridgeport.</i>	<i>238 High St.</i>
Henry Medd,	<i>Brooklyn, N. Y.</i>	<i>E. Berlin.</i>
Hale Powers,	<i>Middletown, Ohio.</i>	<i>B. Θ. Π. House.</i>
Alice Jennette Raymond,	<i>Middletown.</i>	<i>311 High St.</i>



GENERAL STATEMENT.

COURSES OF STUDY.—The College presents to its undergraduate students the option of three parallel courses of study, each extending through four years, named respectively the Classical Course, the Latin-Scientific Course, and the Scientific Course.

In the Classical Course, the study of Latin and Greek forms a large part of the required work of the first year, and must be continued during the second year unless the student elects a very considerable proportion of his studies from the departments of mathematics and physics. In the Latin-Scientific Course, Greek is omitted, and, in the Scientific Course, both Greek and Latin are omitted, in order to give more extended opportunity for the study of modern languages, science, and literature.

REQUIRED AND ELECTIVE STUDIES.—In each of the foregoing courses, nearly all the studies of the first year are required. In the three remaining years, the amount of required work is progressively diminished, the student being allowed to complete his quota by selecting from a wide range of elective studies. He is expected, however, to regulate his choice so that his electives will together form an harmonious and symmetrical course of study; and in no case is a student allowed to select a study which he is not, in the judgment of his instructors, qualified to pursue with advantage.

SPECIAL COURSES.—Students who do not desire to complete any one of the foregoing courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood that this provision is intended for the benefit, not

of those students who are incompetent to take one of the regular courses, but of those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended courses of study in particular departments. Such special students will be expected to attend all exercises assigned them, and will be subject to all the general rules of the college.

GRADUATE STUDIES.—Extended instruction is given to those who wish to pursue graduate courses of study in any of the departments. Further information concerning such graduate courses is given in the reports of the several departments on Courses of Instruction, and also in connection with the statement of conditions for the degrees of Master of Arts and Master of Science.



TERMS OF ADMISSION.

CLASSICAL COURSE.*

Candidates for admission to the Classical Course are examined in the following subjects:—

- LATIN.—1. Latin grammar, including prosody.
2. Caesar,—Gallic War, books I.—IV.
3. Cicero,—the four orations against Catiline, and those for Archias and for the Manilian Law.
4. Vergil,—Eclogues, and *Æneid*, books I.—VI.
5. Translation at sight into English of passages of Latin, both prose and poetry, of average difficulty.
6. Translation into Latin of simple English sentences and of easy narrative passages based on the prose authors read.

With the passages set under headings 5 and 6, a vocabulary of the less common words is supplied.

In place of the requirements specified under headings 2, 3, and 4, equivalent readings will be accepted, but, in general, prose will not be accepted instead of poetry, nor *vice versa*.

The Roman system of pronunciation is exclusively used in all the Latin work of the college course, and it is expected that applicants for admission will be well versed in it. A brief scheme of approximately equivalent sounds in English is here given: *a* is pronounced as in *father*, *e* as in *they*, *i* as in *machine*, *o* as in *tone*, *u* as *oo* in *boot* (the long and short vowels have the same quality of sound, but the latter are pronounced in less time than the former); *ae* as *ay*, *au* as *ou* in *out*, *ei* as in *eight*, *eu* as in *feud*, *oe* as *oi* in *boil*, *ui* as in *quit*; *c* and *g* always as in *come* and *get*, *s* always as in *sin*, *j* as *i* in *valiant*, *v* as *w* in *wit*, *y* as French *u* or German *ü*, *x* as *ks*, *z* as *ds*, *r* always trilled, *ch*, *ph*, and *th* as *c*, *p*, and *t* with the aspiration following, as in *hack-hire*, *haphazard*, *boat-hook*; other consonants as in English.

It is urged that candidates be well drilled in the observance of the laws of quantity in oral reading, especially in Vergil and Ovid.

* For announcement of prize for excellence in the studies preparatory to admission, see "Ayres Prize."

GREEK.—I. Greek grammar, including prosody,—Hadley-Allen's, or Goodwin's.

2. Xenophon,—Anabasis, books I.—IV.
3. Homer,—Iliad, books I.—III.
4. Translation at sight of one or more passages from Xenophon.
5. Translation into Greek of easy narrative passages based on the required books of the Anabasis.

ANCIENT HISTORY AND GEOGRAPHY.—I. History of Rome to the death of Marcus Aurelius.

2. History of Greece to the capture of Corinth, 146 B. C.
3. Ancient geography.

The following books are recommended as the basis of instruction in ancient history and geography:—

1. Allen's Short History of the Roman People (Part II. of Myers and Allen's Ancient History), pp. 1-275.
2. Myers' Eastern Nations and Greece (Part I. of Myers' and of Myers and Allen's Ancient History), beginning with Section II.
3. Tozer's Primer of Ancient Geography.

Familiarity with map drawing is also especially desirable.

MATHEMATICS.—I. Algebra,—Fundamental operations, factors, common divisors and multiples, fractions, negative quantities and the interpretation of negative results, powers and roots, the binomial theorem for positive integral exponents, radicals, equations of the first and second degrees with one or more unknown quantities, putting problems into equations, ratios and proportions, variation, arithmetical, geometrical, and harmonical progressions.

2. Plane geometry,—Demonstrations, constructions, and solutions of numerical problems.

ENGLISH.—I. *Reading and Practice*. A limited number of books are assigned for reading. The candidate is required to present evidence of a general knowledge of the subject-matter of these books, and to answer simple questions on the lives of their authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and calls for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present

an exercise book, properly certified to by his instructor, containing compositions or other written work done in connection with the reading of the books. In preparation for this part of the requirement, it is important that the candidate shall have been instructed in the fundamental principles of rhetoric.

The books set for this part of the examination will be:—

1899—Dryden's *Palamon and Arcite*; Pope's *Iliad*, Books I., VI., XXII., and XXIV.; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *Vicar of Wakefield*; Coleridge's *Ancient Mariner*; De Quincey's *Flight of a Tartar Tribe*; Cooper's *Last of the Mohicans*; Lowell's *Vision of Sir Launfal*; Hawthorne's *House of the Seven Gables*.

1900—Dryden's *Palamon and Arcite*; Pope's *Iliad*, Books I., VI., XXII., and XXIV.; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *Vicar of Wakefield*; Scott's *Ivanhoe*; De Quincey's *Flight of a Tartar Tribe*; Cooper's *Last of the Mohicans*; Tennyson's *Princess*; Lowell's *Vision of Sir Launfal*.

1901 and 1902—Shakspere's *Merchant of Venice*; Pope's *Iliad*, Books I., VI., XXII., and XXIV.; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *Vicar of Wakefield*; Coleridge's *Ancient Mariner*; Scott's *Ivanhoe*; Cooper's *Last of the Mohicans*; Tennyson's *Princess*; Lowell's *Vision of Sir Launfal*; George Eliot's *Silas Marner*.

2. *Study and Practice.* A smaller number of books are assigned for more careful study. The examination upon these books covers subject-matter, form, and structure, and also tests the candidate's ability to express his knowledge with clearness and accuracy. In addition, the candidate may be required to answer questions involving the essentials of English grammar, and questions on the leading facts in those periods of English literary history to which the prescribed works belong.

The books set for this part of the examination will be:—

1899—Shakspere's *Macbeth*; Milton's *Paradise Lost*, Books I. and II.; Burke's *Speech on Conciliation with America*; Carlyle's *Essay on Burns*.

1900—Shakspere's *Macbeth*; Milton's *Paradise Lost*, Books I. and II.; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and on Addison*.

1901 and 1902.—Shakspeare's *Macbeth*; Milton's *L'Allegro* and *Il Penseroso*, *Comus*, *Lycidas*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton* and on *Addison*.

NOTE.—No candidate will be accepted in English whose work is notably defective in point of spelling, punctuation, idiom, or division into paragraphs.

LATIN-SCIENTIFIC COURSE.

Candidates for admission to the Latin-Scientific Course are examined in the following subjects:—

LATIN.—Same requirements as for the Classical Course.

ANCIENT HISTORY AND GEOGRAPHY.—Same requirements as for the Classical Course, including Greek history and geography.

MATHEMATICS.—Same requirements as for the Classical Course.

ENGLISH.—Same requirements as for the Classical Course.

Two additional courses, to be selected from the following list (provided that at least one course in modern languages must be selected):—

1. ELEMENTARY FRENCH.—Such a knowledge of the language is required as may be obtained by the reading of at least 400 pages, part of which should be read at sight. The examination consists of easy passages at sight, elementary grammatical questions, and the translation of simple English sentences into French. To meet this requirement two years' work will generally be necessary.

2. ELEMENTARY GERMAN.—Such a knowledge of the language is required as may be obtained by the reading of at least 300 pages, part of which should be read at sight. The examination consists of easy passages at sight, elementary grammatical questions, and the translation of simple English sentences into German. To meet this requirement two years' work will generally be necessary.

3. ADVANCED FRENCH, as specified on page 31.

4. ADVANCED GERMAN, as specified on page 31.

5. PHYSICAL GEOGRAPHY AND BOTANY, as specified on page 32.

6. PHYSICS, as specified on page 32.

7. CHEMISTRY, as specified on page 32.

8. HISTORY OF ENGLAND AND OF THE UNITED STATES, as specified on page 31.

SCIENTIFIC COURSE.

Candidates for admission to the Scientific Course are examined in the following subjects:—

MATHEMATICS.—Same requirements as for the Classical Course.

ENGLISH.—Same requirements as for the Classical Course.

HISTORY OF ENGLAND AND OF THE UNITED STATES.—Such a knowledge of the subject is required as may be gained from Montgomery's Leading Facts of English History, and Johnston's History of the United States for Schools or Montgomery's Leading Facts of American History.

Six additional courses, to be selected from the following list (provided that at least one course in modern languages and at least one course in natural science must be selected):—

1. LATIN (counting as two courses).—Grammar, Caesar's Gallic War, books I.–IV.; translation into Latin of simple English sentences.

2. ADVANCED MATHEMATICS (counting as two courses).—(1) Solid geometry. (2) Plane and spherical trigonometry, with the use of logarithmic and trigonometric tables. (3) Analytical geometry,—the straight line, the circle, and elementary properties of the conic sections.

3. ELEMENTARY FRENCH (counting as two courses), as specified on page 30.

4. ELEMENTARY GERMAN (counting as two courses), as specified on page 30.

5. ADVANCED FRENCH.—The requirement includes the reading of at least 400 additional pages of French (not more than half of which should be fiction), and regular practice in writing and speaking French. At least one additional year of study will be necessary to meet this requirement.

6. ADVANCED GERMAN.—The requirement includes the reading of at least 300 additional pages of German (not more than half of which should be fiction), and regular practice in writing and speaking German. At least one additional year of study will be necessary to meet this requirement.

7. PHYSICAL GEOGRAPHY AND BOTANY.—(1) In physical geography, such a knowledge of the subject is required as may be gained from the study of Geikie's *Elementary Lessons in Physical Geography*, or Tarr's *Elementary Physical Geography*.

(2) In botany, the candidate must pass an examination in Gray's *Lessons in Botany*, and must show ability to dissect flowers of ordinary difficulty, and to write descriptions of them.

8. PHYSICS.—(1) Such a knowledge of the subject is required as may be gained from Carhart and Chute's *Elements of Physics*, Gage's *Elements of Physics*, Avery's *School Physics*, or Appleton's *School Physics*.

(2) The candidate must also have performed a series of at least thirty experiments *involving careful measurements*, in addition to any qualitative or very simple quantitative experiments he may have performed, and must present his original note-book, containing full records of the experiments, and certified to by his instructor. Such experiments as the exercises in Hall and Bergen's *Textbook of Physics*, or the less simple experiments in Chute's *Physical Laboratory Manual* or Gage's *Manual of Physical Experiments*, will be considered satisfactory.

9. CHEMISTRY.—(1) Such a knowledge of the subject is required as may be gained from Storer and Lindsay's *Manual of Chemistry* (omitting pp. 230-286), or from Remsen's *Chemistry, Elementary Course*.

(2) The candidate must also have performed a series of at least fifty experiments, and must present his original note-book, containing records of the processes and results of the experiments, and certified to by his instructor.

NOTE.—The requirements for admission to the Latin-Scientific and Scientific Courses are to be made equal to those in the Classical Course in the year 1901. A statement of the changes which are to go into effect in the year 1900 may be expected in the May *Bulletin*.

SPECIAL COURSES.

Special students, not candidates for a degree, may be admitted, upon passing such examinations as the Faculty shall in each case prescribe.

GENERAL REGULATIONS CONCERNING ADMISSION.

ADVANCED STANDING.—All candidates for advanced standing are examined in the preparatory studies, and also in those previously pursued by the classes they propose to enter, or in other studies equivalent to them. No candidate can be admitted later than at the beginning of the Senior year.

PRELIMINARY EXAMINATIONS.—A candidate for admission to the Classical Course may obtain a preliminary record a year or more in advance of the time at which he expects to enter college, on condition of passing, in the June and September examinations of any year taken together, in *nine* or more of the following subjects: Latin grammar, Caesar, Cicero, Vergil, Latin prose at sight, Latin poetry at sight, Latin composition, Greek grammar, Xenophon, Homer, Greek at sight, Greek composition, Roman history, Greek history, ancient geography, algebra, geometry, English (reading and practice), English (study and practice).

In order to obtain such a record, a candidate for admission to the Latin-Scientific Course must pass in *eight* or more, and a candidate for admission to the Scientific Course in *seven* or more, of the following lists of subjects:—(1) Latin-Scientific: Latin grammar, Caesar, Cicero, Vergil, Latin prose at sight, Latin poetry at sight, Latin composition, Roman history, Greek history, ancient geography, algebra, geometry, English (reading and practice), English (study and practice), elementary French, elementary German, advanced French, advanced German, physical geography, botany, theoretical physics, practical physics, theoretical chemistry, practical chemistry, history of England, history of the United States. (2) Scientific: algebra, geometry, English (reading and practice), English (study and practice), history of England, history of the United States, Latin grammar, Caesar, elementary Latin composition, solid geometry, plane and spherical trigonometry, analytical geometry, elementary French, elementary German, advanced French, advanced German, physical geography, botany, theoretical physics, practical physics, theoretical chemistry, practical chemistry.

DATE AND PLACE OF EXAMINATIONS.—The regular examination for admission is held on the Thursday and Friday of Commencement week. Candidates must present themselves at South College at 9 A. M. on the former day. A second examination is held, commencing

on the day preceding the first day of the first term. Candidates may be examined in Philadelphia, Cleveland, Cincinnati, or Chicago, provided they make application to the President before June 1. The time of these examinations will be Thursday and Friday of Commencement week. If no applications are received before June 1, these examinations will not be held.

ADMISSION BY CERTIFICATE.—Certificates covering the foregoing requirements for admission to college are received from certain schools of good standing, which have been approved by the Faculty.

Diplomas (but not certificates) issued by the Regents of the University of the State of New York, and pass cards supplementary to such diplomas, will be received in lieu of examination in the subjects which they cover.

Students entering by certificate are considered as on trial until the completion of the midyear examinations.

Detailed information concerning admission by certificate may be obtained on application to the President, or to the Secretary of the Faculty.

Ladies are admitted to equal privileges in the University with gentlemen.

All candidates for admission must present satisfactory testimonials of good moral character; and certificates of regular dismission will be required from those who have been members of other colleges.



COURSES OF INSTRUCTION.



For regulations concerning selection of studies, see page 66.

The figures ¹ or ² following the number of a course indicate respectively that the course is offered for the first or the second half-year.

The place of meeting of each course is indicated by means of the following abbreviations: N. C.=North College; S. C.=South College; L. CH.=Lower Chapel; L. CH. 2=Small recitation room, Lower Chapel; J. H.=Judd Hall; O. H.=Observatory Hall; CHEM. LAB., PHYS. LAB., BIOL. LAB.=Chemical, Physical, Biological Laboratory.

The Roman numerals in parenthesis following each course indicate the examination group to which it is assigned. A tabular view of the groups is given on pages 64 and 65.

The mark * prefixed to the number of a course indicates that it can be elected only with the previous approval of the instructor.

LATIN.

† PROFESSOR MERRILL; ASSOCIATE PROFESSOR NICOLSON; DR. HAYLEY.

I. LIVY,—Books 21 and 22 (*first half-year*). TERENCE,—Phormio; PLAUTUS,—Trinummus; CICERO,—De Senectute (*second half-year*). Exercises in sight translation and in prose composition throughout the year. SECTION 1, *Mon., Wed., Th., Fri., at 9*; SECTION 2, *Mon., Wed., Th., Fri., at 11*; SECTION 3, *Mon., Wed., Th., Fri., at 12*. 5 S. C. PROFESSOR NICOLSON AND DR. HAYLEY. (II.)
Course I. is required of Classical and Latin-Scientific Freshmen.

II.¹ CICERO,—Selected Letters. *Tu., Th., at 3 (first half-year)*.
5 S. C. DR. HAYLEY. (XII.)

III.² PLINY THE YOUNGER,—Selected Letters. *Tu., Th., at 3 (second half-year)*. 5 S. C. DR. HAYLEY. (XII.)

IV.¹ SELECTIONS FROM ROMAN POETRY. *Tu., Th., at 9 (first half-year)*. 3 S. C. DR. HAYLEY. (VIII.)

V.² HORACE,—Odes and Epodes. *Tu., Th., at 9 (second half-year)*. 3 S. C. PROFESSOR NICOLSON. (VIII.)

Courses II.-V. are elective for those who have taken Course I.

† Absent for the year.

* VI. LATIN PROSE COMPOSITION. The course begins with the systematic study of the elementary principles of Latin rhetoric, accompanied by brief practical exercises, and proceeds, in the second half-year, to the rendering into Latin of connected passages of modern historical and epistolary prose. The work is varied from year to year in accordance with individual needs, so that it may often be elected with advantage by the same student for a second year. In all such cases, however, the previous approval of the instructor must be obtained. *Mon. at 2.* 3 S. C. DR. HAYLEY.

Course VI. is elective, with the permission of the instructor, for those who have taken Course I. Prospective candidates for preliminary honors in classics are advised to elect it in the Sophomore year.

VII.¹ OVID,—the *Fasti*, with especial attention to historical and topographical questions. *Tu., Th., at 11 (first half-year).* 3 S. C. PROFESSOR NICOLSON. (X.)

VIII.² TACITUS,—selections from the *Annals* I.–VI., designed to illustrate the character of Tiberius, and the course of the upbuilding of the principate. *Tu., Th., at 11 (second half-year).* 3 S. C. DR. HAYLEY. (X.)

Courses VII. and VIII. are elective for those who have taken at least two of Courses II.–V.

Only the courses in Latin that are given in 1898–99 are enumerated above. For information as to the courses that will probably be given in 1899–1900, the student should consult the full statement of alternating courses in this department as given in the catalogue of 1897–98.

GREEK.

PROFESSOR VAN BENSCHOTEN; ASSOCIATE PROFESSOR PATON.

I. LYSIAS,—Select Orations; HERODOTUS,—History of the Persian Wars (*first half-year*). PLATO,—Apology and Crito; HOMER,—Odyssey V.–VIII. (*second half-year*). Exercises in Greek composition and in translation at sight throughout the year. SECTION 1, *Tu., Wed., Th., Fri., at 10*; SECTION 2, *Tu., Wed., Th., Fri., at 11.* 2 S. C. PROFESSOR PATON. (IV.)

Course I. is required of Classical Freshmen.

II. DEMOSTHENES,—Oration on the Crown. Collateral reading in Greek history (*first half-year*). EURIPIDES,—*Alcestis*; ÆSCHYLUS,—*Prometheus Bound*; lectures and collateral reading (*second half-year*). SECTION 1, *Tu., Th., at 12*; SECTION 2, *Wed., Fri., at 12*. 2 S. C. PROFESSOR PATON. (V.)

Course II. is elective for those who have taken Course I.

III. THE LIFE AND LANGUAGE OF THE GREEKS. *Mon., at 12*. 3 S. C. PROFESSOR VAN BENSCHOTEN. (VI.)

Course III. is elective for those who take, or have taken, Course II.

IV. GREEK COMEDY. The *Frogs* and the *Acharnians* of Aristophanes (*first half-year*). GREEK TRAGEDY. Æschylus, Sophocles, Euripides (*second half-year*). One meeting each week will be devoted to special studies in the Greek language and literature. *Mon., Wed., Fri., at 8*. 3 S. C. PROFESSOR VAN BENSCHOTEN. (I.)

Course IV. is elective for those who have taken Courses I. and II., and who take, or have taken, Course III.

[V. GREEK PHILOSOPHY. The *Clouds* of Aristophanes (*first half-year*). Xenophon; Greek Drama (*second half-year*). *Three times a week*. PROFESSOR VAN BENSCHOTEN.]

Course V. is elective for those who have taken Courses I. and II., and who take, or have taken, Course III.

Courses IV. and V. are given in alternate years, Course V. being omitted the present year.

[VI. BIBLICAL GREEK. The text used is Scrivener's New Testament in Greek, with the Revisers' Readings. Collateral studies; texts and translations. *Twice a week*. PROFESSOR VAN BENSCHOTEN.]

Course VI. is elective for those who have taken Course II. It is given in alternate years, being omitted the present year.

VII. LYRIC POETRY. PINDAR; BACCHYLIDES (*first half-year*). LUCIAN; PAUSANIAS; NEO-HELLENIC,—with collateral work on the geography and topography of Greece (*second half-year*). One meeting each week will be devoted to special advanced studies in the Greek language and literature. *Mon., Wed., Fri., at 9*. 3 S. C. PROFESSOR VAN BENSCHOTEN. (II.)

Course VII. is elective for those who have taken either Course IV. or Course V.

*VIII. GREEK BUCOLIC POETRY. The study of the Greek text is supplemented by lectures and collateral reading on the poetry of the Alexandrian period. *Th. at 2.* 4 S. C. PROFESSOR PATON.

Course VIII. is elective, with the permission of the instructor, for those who have taken Course II.

[IX. CONSTITUTIONAL HISTORY OF ATHENS. Aristotle's Treatise on the Constitution of Athens forms the basis of the course, but is supplemented by lectures and collateral reading. *Once a week.* PROFESSOR PATON.]

Course IX. is elective, with the permission of the instructor, for those who have taken Course II. It is omitted the present year.

[X. SEMINARY FOR THE STUDY OF GREEK ARCHÆOLOGY. *Once (counting as twice) a week.* PROFESSOR VAN BENSCHOTEN.]

Course X. is elective for those who have taken Courses I. and II., and who take, or have taken, Course III. It is omitted the present year.

XI. GREEK LITERATURE. Lectures and collateral reading. *Tu. at 2 (counting as twice a week).* 3 S. C. PROFESSOR VAN BENSCHOTEN.

Course XI. is elective for those who have taken Courses I. and II., and who take, or have taken, Course III. Courses X. and XI. are given in alternate years, Course X. being omitted the present year.

It is very desirable that those who elect the advanced courses in Greek should be able to read German prose on philological subjects.

GERMAN.

ASSOCIATE PROFESSOR FAUST; MR. FORD.

I. ELEMENTARY GERMAN. Harris' German Lessons, and German Reader. Heyse,—L'Arrabbiata; Hillern,—Höher als die Kirche; Storm,—Imensee; Zschokke,—Das Abenteuer der Neujahrsnacht, Der zerbrochene Krug; Fouqué,—Undine. Thomas' Practical German Grammar. SECTION 1, *Mon., Wed., Fri., at 8.* 11 S. C. PROFESSOR FAUST. SECTION 2, *Mon., Wed., Fri., at 2.* 12 S. C. MR. FORD. (I.)

For rules in regard to the election of I. German, see page 42.

II. ADVANCED GERMAN. READINGS. Classical: Schiller,—Wilhelm Tell; Lessing,—Minna von Barnhelm; Goethe,—Hermann und Dorothea. Scientific: Brandt and Day's German Scientific Reading. Historical: Freytag,—Aus dem Staat Friedrichs des Grossen. At sight: von Moser,—Der Bibliothekar; Chamisso,—Peter Schlemihl.

PROSE COMPOSITION AND GRAMMAR. Harris' Selections for German Composition. Thomas' Practical German Grammar. *Mon., Wed., Fri., at 11.* 12 S. C. PROFESSOR FAUST. (IV.)

Course II. is elective for those who have taken Course I.

III. GERMAN CONVERSATION. For acquiring a vocabulary and readiness in the use of German, Meissner's Practical Lessons in German Conversation serves in part as guide. All class exercises are conducted in the German language. Readings and lectures in German are given on subjects relating to the geography (illustrated by physical and political maps) and *Kulturgeschichte* of Germany. *Th. at 11.* 6 S. C. PROFESSOR FAUST.

Course III. is elective for those who have taken Courses I. and II., or their equivalent. It may be elected, with the permission of the instructor, together with Course II., or with advanced electives.

IV. PROSE COMPOSITION AND ADVANCED GRAMMAR. Von Jagemann's Prose Composition; Brandt's German Grammar. Theme-writing; discussion of methods of teaching German. *Mon. at 3.* 6 S. C. PROFESSOR FAUST. (VII.)

Course IV. is elective for those who have taken Courses I.—III.

V. GOETHE AND SCHILLER. Goethe's Faust, (edited by Thomas), Part I., and selected portions of Part II. A critical study of the text, and discussion of the questions concerning the beginnings and the composition of the drama. Schiller,—Wallenstein trilogy. Study of the lives and works of the two authors. *Tu., Th., at 9 (counting as three times a week).* 6 S. C. PROFESSOR FAUST. (VIII.)

Course V. is elective for those who have taken Courses I.—III., or their equivalent.

[VI. MIDDLE HIGH GERMAN. Paul's *Mittelhochdeutsche Grammatik*. Das Nibelungenlied, edited by Zarncke. Walther von der Vogelweide, edited by Paul. *Once (counting as twice) a week.* PROFESSOR FAUST.]

Course VI. is elective for those who have taken Courses I.—III., or their equivalent. It is omitted the present year.

[VII. THE HISTORY OF GERMAN FICTION. Lectures and reports. Outline: Earliest prose fiction, Grimmelshausen's *Simplicissimus* (seventeenth century); the Robinsonaden, and English influence (eighteenth century); Goethe's *Wilhelm Meister*; the romanticists; foreign influences (Scott; the historical and exotic romances); the national, and the modern realistic novel. Readings: Scheffel,—Ekkehard; Freytag,—*Soll und Haben*; selected short stories of Auerbach, Storm, Heyse, Hillern, Ebner-Eschenbach. *Twice (counting as three times) a week.* PROFESSOR FAUST.]

Course VII., except in special cases where the instructor's permission is obtained, is elective for those only who have taken Courses I.-III. It is omitted the present year.

Graduate Instruction.

Courses V.-VII. are designed also for graduate students. Those desiring advanced work in German literature, or an introduction to the study of German philology, are assigned courses of private reading.

ROMANCE LANGUAGES.

PROFESSOR KUHN; MR. FORD.

I. ELEMENTARY FRENCH. Whitney's *Practical French Grammar*, Part I. Super's *French Reader*. Victor Hugo,—*Quatre-vingt-treize*; Erckmann-Chatrian,—*Madame Thérèse*; About,—*Le Roi des Montagnes*. Part of the above books are read at sight. Special attention is paid to personal drill in pronunciation. SECTION 1, *Mon., Wed., Fri., at 8*, 6 S. C.; SECTION 2, *Mon., Wed., Fri., at 3*, 11 S. C. MR. FORD. (I.)

For rules in regard to the election of I. French, see page 42.

II. ADVANCED FRENCH. Whitney's *Grammar*, Part II., and Grandgent's *French Composition*. This course has for its main object the study of advanced grammar and composition, in connection with the reading of a large amount of French. During the second half-year more attention is paid to the literature. *Tu., Th., at 8*. 11 S. C. PROFESSOR KUHN. (VII.)

Course II. is elective for those who have taken Course I.

*III. FRENCH CONVERSATION. Bercy,—*Le Français Pratique*. During the year informal lectures on travel in Europe are given

in French. Some of the lectures are illustrated by lantern slides. *Wed. at 11.* 6 S. C. PROFESSOR KUHN.

Course III. is elective, with the permission of the instructor, for those who have taken Course I.

IV. MODERN FRENCH LITERATURE. Selections from the works of the more important authors of the seventeenth, eighteenth, and nineteenth centuries. There is at each recitation translation of English into French. Further, frequent lectures are given on the general state of literature in France in the seventeenth, eighteenth, and nineteenth centuries. In addition, each member of the class must take a somewhat extended course of reading, must prepare for the class an abstract of what he has read, and must also write a short essay in French on the life of a selected author. *Wed., Fri., at 9.* 2 S. C. PROFESSOR KUHN. (II.)

Course IV. is elective for those who have taken Courses I.-III.

V. OLD FRENCH. Clédat,—Morceaux choisis des auteurs français du moyen âge. Lectures on Old French literature. *Fri. at 8.* 5 S. C. PROFESSOR KUHN.

Course V. is elective for those who have taken Courses I.-IV.

[VI. MÆVAL FRENCH LITERATURE. Lectures and collateral reading. *Once a week.* PROFESSOR KUHN.]

Course VI. is elective for those who have taken Courses I.-IV. It is omitted the present year.

VII. SEMINARY COURSE, for those who expect to teach French. Special work in pronunciation, grammar and composition. *Mon. at 12.* 6 S. C. PROFESSOR KUHN.

Course VII. is elective for those who have taken Courses I.-IV.

VIII. ELEMENTARY ITALIAN. Italian Principia, I. Bowen's First Italian Readings. De Amicis,—Cuore; Manzoni,—I Promessi Sposi; Pellico,—Le Mie Prigioni. In addition to the regular work of the class in translating modern prose, the instructor will translate and interpret to the class the Inferno and the Purgatorio of Dante, the last half-hour of each recitation being devoted to this exercise. As a preparation for this part of the work, the class is required to read Rossetti's Shadow of Dante. *Tu., Th., at 3.* 6 S. C. PROFESSOR KUHN. (XII.)

Course VIII. is elective for Sophomores who have taken I. French.

[IX. ADVANCED ITALIAN. Dante, Petrarch, Tasso, Ariosto. Lectures on the history of Italian literature. *Twice a week.* PROFESSOR KUHN.]

Course IX. is elective for those who have taken Course VIII. It is omitted the present year.

Graduate Instruction.

Courses V. and VI. are designed for graduate students, but are elective for undergraduates.

Of the courses in French and German, Classical Freshmen are required to pursue either I. French or I. German, but are allowed their option between the two. Students in the Latin-Scientific Course are examined at entrance in the equivalent of either I. French or I. German, as they may elect, and in the Freshman year are required to pursue one course in French or German, but may continue the study of the language in which their entrance examination was taken, or may begin the study of the other language, as they may elect. Students in the Scientific Course are required to complete the equivalent of Courses I. and II. in French and I. and II. in German. Such of these courses as they have not pursued and passed in before entering college, they must take as soon as possible after entering.

ENGLISH LITERATURE.

PROFESSOR WINCHESTER.

I. GENERAL INTRODUCTION TO ENGLISH LITERATURE. 1. An outline of the history of the literature. Stopford Brooke's *English Literature*, with lectures. *First half-year.* 2. Class-room reading and discussion of literary masterpieces. The works selected are:—Chaucer's Prologue to the *Canterbury Tales*, and the *Nonne Preestes Tale*; Shakspeare's *Hamlet*; selections from Pope's *Satires*. *Second half-year.* 3. A brief course of collateral reading, with written recitations and essays upon subjects drawn from the reading. Members of the class may choose any one of the courses in Winchester's *Five Short Courses of Reading in English Literature*. These courses consist of selections from the following authors:—

(1.) 1559-1674. Marlowe, Green, Shakspeare, Bacon, Milton.

(2.) 1660-1745. Dryden, Addison, Steele, Swift; with Johnson's *Lives of Dryden, Swift, and Pope*, and Thackeray's *Lectures on the English Humourists*.

(3.) 1745-1789. Gray, Goldsmith, Johnson, Burke, Cowper, Burns; with Leslie Stephen's *Life of Johnson*, Dobson's *Life of Goldsmith*, Morley's *Life of Burke*.

(4.) 1789-1832. Wordsworth, Coleridge, De Quincey, Lamb, Byron, Shelley, Keats.

(5.) 1832-1880. Carlyle, Ruskin, Matthew Arnold, Browning, Tennyson. *Mon., Wed., Fri., at 12.* 11 S. C. (V.)

Course I. is elective for Juniors.

*II. ENGLISH LITERATURE of the Victorian period, 1832-1880. Carlyle, Ruskin, Matthew Arnold, Tennyson, and Browning. Critical reading and discussion; lectures. SECTION I, *Mon., Wed., Fri., at 9*; SECTION 2, *Mon., Wed., Fri., at 11.* 56 N. C. (II.)

Course II. is elective (with some restrictions) for those who have taken Course I.

[III. ENGLISH POETRY, 1789-1832. Wordsworth, Coleridge, Scott, Byron, Shelley, Keats. Critical reading and discussion; lectures. *Three times a week.*]

Course III. is elective (with some restrictions) for those who have taken Course I. It is omitted the present year.

IV. ELEMENTS OF LITERARY CRITICISM. A course of lectures upon the essential elements and the various forms of literature, with practical exercises in the application of critical principles. *Wed. at 8.* L. CH. 2. (I.)

Course IV. is elective for those who have taken Course I.

V. DEBATE. Weekly practical exercises. Two members of the class are appointed to conduct the debate at each exercise. They must prepare written briefs of their argument, which are revised and corrected by the instructor, and are then publicly posted four days before the debate.

Course V. is elective for Seniors, and those who elect it are excused from half the rhetorical work required in Course VI. *Mon. at 10.* L. CH. 2.

VI. ENGLISH COMPOSITION. The rhetorical exercises of the Senior class are assigned to this department. Every Senior (unless excused from half this requirement by the provisions of Course V.)

must write either four essays or two orations. All written work receives the personal criticism of the instructor, and the orations are also rehearsed before the instructor in Elocution.

Graduate Instruction.

No formal courses exclusively for graduate students are announced this year; but special courses of reading, criticism, or research are arranged to meet the needs of the individual student.

ENGLISH LANGUAGE

PROFESSOR MEAD.

I. A. GENERAL HISTORY OF THE ENGLISH LANGUAGE, with lectures and illustrative examples from Old English. Emerson's Shorter History of the English Language, and Smith's Grammar of Old English. Skeat's Concise Etymological Dictionary is used for reference. *Th. at 3 (counting as twice a week).* 12 S. C. (XII.)

B. SELECTIONS FROM MACAULAY'S ESSAYS, with lectures, illustrative extracts from other authors, and collateral reading in English literary history. SECTION 1, *Tu. at 12*, 6 S. C.; SECTION 2, *Tu. at 3*, 11 S. C. (*counting as twice a week*). (XII.)

Freshmen are required to take Course I. A or Course I. B. Course I. A is a necessary preparation for Course IV. Students who have not shown special aptitude for linguistic study are advised to elect Course I. B rather than Course I. A.

II.¹ RHETORIC. Hill's Foundations of Rhetoric, Wendell's English Composition. The members of the class are required to write, in addition to their regular essays, weekly exercises illustrating and applying the principles laid down in the text-books. These exercises are discussed and criticized by the class. As a study in modern prose style, the class read and discuss in the class-room Macaulay's essay on Croker's edition of Boswell's Life of Johnson, and Brewster's Studies in Structure and Style. SECTION 1, *Mon., Wed., Fri., at 8*; SECTION 2, *Mon., Wed., Fri., at 9 (first half-year)*. 6 S. C. (II.)

Course II. is required of Sophomores.

III. ENGLISH COMPOSITION. A. Freshmen are required to present frequent written exercises, based upon the collateral reading in Course I. A or Course I. B, or upon assigned general topics. The

theory of composition is treated in a brief course in elementary rhetoric.

B. Sophomores write, in addition to the exercises mentioned in Course II., six essays during the year on subjects approved by the instructor.

C. Juniors write on subjects of their own selection, and choose one of the two following courses: (1) five general and two departmental essays; (2) two general and four departmental essays. The departmental essays must be written on subjects related to some department of college work and approved by the instructor in English.

[IV. OLD ENGLISH. 1. Bright's Anglo-Saxon Reader, with an introductory course in Cook's First Book in Old English. Sievers' Old English Grammar is used for reference. Skeat's English Etymology is taken as the basis for studies in derivations. As collateral reading, Freeman's Old English History and Gardiner's Student's History of England are recommended. The history of Old English literature is treated in a course of weekly lectures. (See Course V.) 2. Each member of the class is required, in addition, to read either (1) the Anglo-Saxon Chronicle, entire, or (2) Cynewulf's Elene. *Twice a week.*]

Course IV. is elective for Sophomores who have taken Course I. A. It must be taken by all who intend to elect the courses in Middle English. It is omitted the present year.

[V. OLD ENGLISH LITERATURE. A course of lectures on the history of Old English literature before 1100 A. D., with some account of contemporary Germanic literature. The aim of this course is to give a survey of all the Old English prose and poetry before the Norman Conquest, and to describe the life of which the literature is a reflection. *Once a week.*]

Course V. is elective for all Sophomores, but is required of those who elect Course IV. It is omitted the present year.

VI. MIDDLE ENGLISH. The period to be studied extends from Layamon to the imitators of Chaucer.

1. Morris and Skeat's Specimens of Early English. The second half-year is devoted principally to Chaucer. The historical development of the literature is treated in weekly lectures (see Course VII.). For collateral reading, ten Brink's History of English Literature is recommended.

2. Each member of the class elects one of the following courses of collateral reading, and presents at least one thesis on a topic requiring special investigation:—

(1) Selections from the Arthurian Romances, with a study of some of their sources. (2) Selections from the Charlemagne Romances.

(3) Selections from Chaucer's Canterbury Tales and minor poems. *Tu., Th., at 9.* 2 S. C. (VIII.)

Course VI. is elective for those who have taken Course IV. Those who elect it must elect also Course VII. Courses IV. and VI. are given in alternate years, Course IV. being omitted the present year.

VII. MIDDLE ENGLISH LITERATURE. A course of lectures on English literature from the Norman Conquest to the Revival of Learning. The aim of this course is to point out the relations of the early literature of England to the contemporary literature of Europe, and to indicate the materials that have been used again in modern English literature. Especial attention is given to the Arthurian Romances and to Chaucer. *Fri. at 3.* 2 S. C. (VI.)

Course VII. is elective for Juniors, even for those who have not taken Course IV., but is required of those who elect Course VI. Courses V. and VII. are given in alternate years, Course V. being omitted the present year.

VIII. BEOWULF. An advanced course in Old English poetry, with supplementary linguistic investigations involving comparison of Old English and Gothic forms. *Mon. at 3 (counting as twice a week).* 26 N. C.

Course VIII. is elective for those who have taken Course IV.

*IX.² RAPID READING OF EARLY ENGLISH LITERATURE, including selections from Chaucer's Canterbury Tales, early English ballads, the miracle and mystery plays, and Malory's Morte Darthur. *Once (counting as twice) a week (second half-year), the hour to be determined hereafter.* 26 N. C.

Course IX. is elective, with the permission of the instructor, for all Juniors.

ELOCUTION.

PROFESSOR HIBBARD.

I. DECLAMATION. Members of the Freshman class are required to deliver declamations, mostly of their own selection, fortnightly.

Every member of the Sophomore class is required to deliver nine, and every member of the Junior class is required to deliver six, declamations during the year.

II. THEORY OF ELOCUTION. 1. Mechanics of speech. Theories of vocal expression. Text-book, Russell's Vocal Culture. *First term.*

2. Gesture. Theories of Austin and Delsarte. Text-book, Bacon's Manual of Gesture. *Second term.*

3. Study of Style. Lectures on extempore speech and sources of power. *Third term. Tu., Th., at 3. L. CH. (XII.)*

Course II. is elective for Juniors.

HISTORY.

ASSOCIATE PROFESSOR FARRAND.

I. OUTLINES OF GENERAL HISTORY. European history from the time of the German migrations to the outbreak of the French Revolution, with an introductory survey of the ancient nations of the East, and a sketch of the history of Greece and Rome. Ploetz' Epitome of Universal History (Tillinghast's translation); collateral reading, lectures, and recitations. *Tu., Th., at 8. L. CH. 2. (VII.)*

Course I. is elective for Juniors.

[II.¹ THE FORMATIVE PERIOD OF ENGLISH HISTORY. English history from the English Conquest to the close of Elizabeth's reign. Text-book, collateral reading, lectures, and recitations. *Twice a week (first half-year).*]

Course II. is elective for Juniors. It is omitted the present year.

[III.² MODERN ENGLAND. A continuation of Course II. English history from the accession of James I. down to the present time. *Twice a week (second half-year).*]

Course III. is elective for those who have taken Course II. It is omitted the present year.

IV. HISTORY OF FRANCE. After an introduction upon the origin of France, dealing principally with the establishment of the monarchy, the origin and growth of the feudal system, and the rise of the Capets, the course is devoted to a sketch of French history from the election of Hugh Capet to the establishment of the Third Republic. Adams' Growth of the French Nation is used as a text-book, supplemented by lectures and collateral reading. *Tu., Th., at 12. L. CH. 2. (XI.)*

Course IV. is elective for Juniors.

V.¹ HISTORY OF THE ENGLISH CONSTITUTION. Feilden's Constitutional History of England, Cheyney's English Constitutional Documents. The course consists of lectures and recitations upon the origin and growth of the English constitution, with discussions of the more important documents. *Tu., Th., at 10 (first half-year).* L. CH. 2. (IX.)

Course V. is elective for those who take, or have taken, Course I. or Courses II. and III.

VI. UNITED STATES HISTORY. The history of the United States from the Revolution to the Civil War. Montgomery's Student's American History, MacDonald's Select Documents of United States History; collateral reading, lectures, recitations, and discussion of documents. *Mon., Wed., at 9.* L. CH. 2. (II.)

Course VI. is elective for those who take, or have taken, Course I. or Courses II. and III.

VII. EUROPEAN GOVERNMENTS. The governments of the more important state systems of Europe, especially England, France, Germany, and Switzerland, in their origin and present working, are treated in this course. Wilson's State (revised edition) is used as a text-book, supplemented by lectures. SECTION 1, *Mon., Wed., at 2;* SECTION 2, *Mon., Wed., at 3.* 12 S. C. (VI.)

Course VII. is elective for Juniors.

[VIII. THE GOVERNMENT OF THE UNITED STATES. The United States government, state as well as federal, is studied, and the course includes a consideration of some of the more important practical questions of the day. Bryce's American Commonwealth; collateral reading, lectures, recitations, and discussions. *Twice a week.*]

Course VIII. is elective for Juniors. It is omitted the present year.

IX.² HISTORICAL SEMINARY. The subject for the present year is The Administrations of Washington and John Adams. *Twice a week (second half-year), the hours to be determined hereafter.*

Course IX. is elective for Seniors who take, or have taken, Course VI.

ECONOMICS AND SOCIAL SCIENCE.

PROFESSOR FISHER.

I.² PRINCIPLES OF ECONOMIC SCIENCE. General introductory course. Recitations and discussions on the basis of Gide's Principles

of Political Economy. *Mon., Wed., Fri., at 10 (second half-year).*
11 S. C. (III.)

Course I. is required of Juniors.

II.¹ ADVANCED ECONOMICS. This course includes a brief historical view, on the basis of Ingram's History of Political Economy, and critical studies of the theories of value and wages. *Mon., Wed., Fri., at 12 (first half-year).* L. CH. 2. (V.)

Course II. is elective for those who have taken Course I.

III.² PUBLIC FINANCE. The economy of the state:—revenues from taxation, from government industries, and from other sources; the contraction, administration, conversion and liquidation of public debts; government expenditures, their social and industrial effects. The work of this course is based on Adams' Science of Finance; a number of lectures are also given, and references are made to standard authorities. *Mon., Wed., Fri., at 12 (second half-year).* L. CH. 2. (V.)

Course III. is elective for those who have taken Course I.

IV.¹ MONEY AND BANKING. A course of lectures on the general principles and history of monetary and banking institutions, on the social and industrial aspects of the present monetary situation, and on the various schemes for reform. *Tu., Th., at 9 (first half-year).* L. CH. 2. (VIII.)

Course IV. is elective for those who have taken Course I.

V.¹ THE GENERAL LABOR PROBLEM. A course of lectures on the nature, causes, and justification of the present social discontent, and on such suggested remedies as moral elevation, charity, education, provident institutions, labor organizations, strikes, conciliation and arbitration, labor legislation, improved wage systems, profit-sharing, coöperation, nationalization of the land, socialism, communism, anarchism. *Mon., Fri., at 8 (first half-year).* L. CH. 2. (I.)

Course V. is elective for those who have taken Course I.

VI.¹ SOCIOLOGY. A discussion of the fundamental principles of social organization, and the conditions and forms of social progress. *Tu., Th., at 11 (first half-year).* L. CH. 2. (X.)

Course VI. is elective for those who have taken Course I.

VII.² SOCIAL SCIENCE. An examination of certain concrete social problems of the present:—pauperism and charity; the defective and criminal classes; immigration. The class-room work is supplemented

by visits to several of the charitable, penal, and reformatory institutions in and about Middletown. *Tu., Th., at 11 (second half-year).*
L. CH. 2. (X.)

Course VII. is elective for those who have taken Course I. Students intending to elect this course are strongly advised to elect Course VI. also.

*VIII. ECONOMIC SEMINARY. Each member of the seminary takes for private individual investigation, under the direction of the instructor, some problem in economics, finance, statistics, or social science, and week by week reports in class on progress made and obstacles met. At the close of the year the work is brought together in a final report or thesis. *Mon., 7-9 p. m., two hours counting as one.* 14 O. H.

Course VIII. is elective, with the permission of the instructor, for those who, having received first or second grade in Course I., take any three of the Courses III.-VII.

Graduate Instruction.

Course VIII. is intended primarily for graduate students, but is open also to such undergraduates of the Senior year as are making special studies in the department. Courses II.-VII., while open to Seniors, may also be taken with advantage by graduates who have studied only the principles of economic science.

PHILOSOPHY.

PROFESSOR ARMSTRONG; DR. DODGE.

I.² LOGIC. Jevons-Hill's Elements of Logic. An elementary course in the fundamental forms of reasoned thinking, deductive and inductive alike. The study of the text-book is illustrated by numerous examples in logical praxis. SECTION 1, *Wed., Fri., at 9*; SECTION 2, *Wed., Fri., at 3 (second half-year).* 11 S. C. DR. DODGE.

Course I. is required of Sophomores. (II.)

II.¹ PSYCHOLOGY. Sully's Outlines of Psychology, with references to other authorities. Lectures and discussions are used to supplement the text-book. These are introduced especially in explanation of the more recent psychological discussions, and of positions still under debate. SECTION 1, *Mon., Wed., Fri., at 10*; SECTION 2, *Mon., Wed., at 10, Th. at 3 (first half-year).* 11 S. C. PROFESSOR ARMSTRONG. (III.)

Course II. is required of Juniors.

III. PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY. Ladd's Outlines of Physiological Psychology. The course begins with a discussion of the physical basis of mind, but more than half of the time is devoted to the study of the chief experimental methods and results. Frequent lectures and experimental demonstrations are given, in addition to the study of the text-book. *Tu., Th., at 3.* 7 S. C. DR. DODGE. (XII.)

Course III. is elective for Juniors.

IV.¹ ADVANCED LOGIC. Hibben's Inductive Logic. The course opens with several lectures on the history of logic. In connection with the text-book, special attention is given to the discussion of the principles of induction and scientific method and to the criticism of concrete cases of scientific inference. *Tu., Th., at 11 (first half-year).* 11 S. C. DR. DODGE. (X.)

Course IV. is elective for Juniors.

V.¹ INTRODUCTION TO PHILOSOPHY. Lectures and recitations, with references to the Introductions of Stuckenberg and Ladd. *Mon. at 11 (first half-year).* 2 S. C. PROFESSOR ARMSTRONG. (X.)

Course V. may not be elected by itself. It must be combined either with Course IV. or with Course VI.

VI.² ANCIENT AND MEDIÆVAL PHILOSOPHY. Zeller's Outlines of Greek Philosophy, with references to Schwegler, Zeller's larger work, and other authorities; lectures and discussions. *Tu., Th., at 11 (second half-year).* 11 S. C. PROFESSOR ARMSTRONG. (X.)

Course VI. is elective, under ordinary circumstances, for those who have taken Course IV. or Course V.

VII.¹ MODERN PHILOSOPHY FROM THE RENAISSANCE TO KANT. Falckenberg's History of Modern Philosophy; lectures, recitations, discussions, and references to other standard histories of philosophy. *Wed., Fri., at 11 (first half-year).* 3 S. C. PROFESSOR ARMSTRONG. (IV.)

Course VII. is elective, under ordinary circumstances, for those who have taken Course VI.

VIII.² MODERN PHILOSOPHY FROM KANT TO THE PRESENT TIME. Falckenberg's History of Modern Philosophy; lectures, recitations, discussions, and references to other authorities. *Wed., Fri., at 11 (second half-year).* 3 S. C. PROFESSOR ARMSTRONG. (IV.)

Course VIII. is elective for those who have taken Course VII.

IX. ADVANCED PSYCHOLOGY. The object of this course is the discussion of important selected topics in systematic psychology. The views of leading thinkers are presented in lectures, and in reports by members of the class, and these views are subjected to comparative and independent criticism. *Fri. at 2.* 7 S. C. DR. DODGE.

Course IX. is elective for those who have taken Course III., or for those who have received first or second grade in Course II.

*X. LABORATORY COURSE IN PSYCHOLOGY. Experimental study of special problems. The principal subject of investigation for the present year is the psychology of language. *Th., 7-8:30 p. m., counting as one hour a week.* 7 S. C. DR. DODGE.

Course X. is elective, with the permission of the instructor, for those who have taken Courses II. and III.

XI.¹ READINGS IN MODERN PHILOSOPHY. In this course, representative works of leading thinkers of the first half of the modern period are read and discussed. Special attention is given to selections from Descartes, Locke, Berkeley, and Hume. *Mon. at 9, Fri. at 8 (first half-year).* 7 S. C. DR. DODGE. (II.)

Course XI. is elective for those who are taking Course VII.

XII.² METAPHYSICS. Selections from Kant's works and from Lotze's Metaphysics. Class readings and discussions. Topical reports and theses may also be required. *Mon., Wed., Fri., at 9 (second half-year).* 7 S. C. PROFESSOR ARMSTRONG. (II.)

Course XII. is elective for those who are taking Course VIII.

Graduate Instruction.

XIII. GRADUATE SEMINARY. The Philosophy of Kant, as given in the Critiques of Pure Reason, Judgment, and Practical Reason. *Once a week.* PROFESSOR ARMSTRONG.

Course XIII. is intended for graduate students, Courses IX.-XII. for advanced undergraduates and graduates. Special courses under the direction of the instructors of the department may be arranged in advanced experimental and theoretical psychology, historical philosophy, and metaphysics.

ETHICS AND RELIGION.

PRESIDENT RAYMOND; PROFESSOR RICE; DR. STARKS.

I.¹ ETHICS. A course of lectures on theoretical and practical ethics. The course begins with a brief historical survey of modern

ethical theories, and is supplemented by collateral reading. *Wed., Fri., at 10 (first half-year)*. L. CH. PRESIDENT RAYMOND.

Course I. is required of Seniors. (III.)

II.² EVIDENCES OF CHRISTIANITY. Lectures, with collateral readings on all the important topics. *Wed., Fri., at 10 (second half-year)*. L. CH. DR. STARKS. (III.)

Course II. is required of Seniors.

III.² THEISM. Instruction is given by lectures, supplemented by collateral readings and class discussions. The purpose of the course is to discover essential religious phenomena, to test the various historic theories offered in explanation of these phenomena, and to find a philosophic basis for faith. *Tu., Th., at 12 (second half-year)*. J. S. C. PRESIDENT RAYMOND. (XI.)

Course III. is elective for those who have taken Courses I., II., V.-VII. in Philosophy.

[IV.² RELATIONS OF SCIENCE AND RELIGION. A course of lectures on the history of important advances in scientific thought and their bearing upon theistic and Christian belief. The heliocentric astronomy, the antiquity of the earth and of man, the theory of evolution, and the correlation of physical and vital forces, are among the topics discussed. *Twice a week (second half-year)*. PROFESSOR RICE.]

Course IV. is elective for Juniors. It is omitted the present year.

V. ENGLISH BIBLE. A course of studies in the New Testament. Its three chief features are: 1. An attempt to gain a broad knowledge of the contents of the New Testament; 2. Studies in the Gospels, with primary reference to the life of Jesus; 3. Studies in the Epistles, especially the great letters of Paul. *Tu., Th., at 10*. L. CH. DR. STARKS. (IX.)

Course V. is elective for Juniors.

MATHEMATICS AND ASTRONOMY.

PROFESSOR J. M. VAN VLECK; PROFESSOR E. B. VAN VLECK; DR. LING.

I. SOLID GEOMETRY. Phillips and Fisher's Elements of Geometry. *First third of the year*.

TRIGONOMETRY. Plane and Spherical. *Second third of the year*.

ANALYTICAL GEOMETRY. Elementary course. *Last third of the year*. SECTION 1, *Mon., Tu., Th., Fri., at 9*; SECTION 3, *Mon.,*

Tu., Th., Fri., at 12. DR. LING. SECTION 2, *Mon., Tu., Th., Fri., at 10.* PROFESSOR E. B. VAN VLECK. 12 S. C.

Course I. is required of Classical and Latin-Scientific Freshmen, and of Scientific Freshmen who did not pass in the advanced requirements in mathematics on admission to college.

II. ALGEBRA. Advanced course, principally in the Theory of Equations. *Tu., Th., at 11.* 26 O. H. DR. LING. (X.)

Course II. is elective for those who have taken Course I.

[III. TRIGONOMETRY. Advanced course, with applications to problems in surveying and astronomy. *Twice a week.* DR. LING.]

Course III. is elective for those who have taken Course I. It is omitted the present year.

IV. ANALYTICAL GEOMETRY. Advanced course, based upon C. Smith's Conic Sections, with an elementary introduction to solid geometry. *Wed., Fri., at 2.* 26 O. H. DR. LING. (VI.)

Course IV. is elective for those who have taken Course I.

V. DIFFERENTIAL AND INTEGRAL CALCULUS. Elementary course. *Mon., Wed., Fri., at 12.* 25 O. H. PROFESSOR E. B. VAN VLECK.

Course V. is elective for those who have taken Course I. (V.)

Courses II., IV., and V. are necessary for those who purpose to pursue advanced courses in pure mathematics; Course V. for those intending to pursue advanced courses in physics and other branches of applied mathematics.

VI. DIFFERENTIAL EQUATIONS, based on Murray's Treatise on Differential Equations. *Mon. at 9; Fri. at 8.* 26 O. H. PROFESSOR E. B. VAN VLECK.

Course VI. is elective for those who have taken Course V.

VII. ANALYTICAL GEOMETRY OF THREE DIMENSIONS, including especially a study of mathematical models. *Tu., Th., at 10.* 26 O. H. PROFESSOR J. M. VAN VLECK. (IX.)

Course VII. is elective for those who have taken Course IV., and who take, or have taken, Course V.

[VIII. PROJECTIVE GEOMETRY. *Twice a week.* PROFESSOR E. B. VAN VLECK.]

Course VIII. is elective for those who have taken Course IV. or Course V. It is omitted the present year.

IX. APPLICATIONS OF DIFFERENTIAL EQUATIONS to special problems in physics and astronomy. *Tu., Th., at 12.* 26 O. H. PROFESSOR E. B. VAN VLECK. (XI.)

Course IX. is elective for those who have taken Course VI.

X. THEORY OF FUNCTIONS. Elementary course. *Tu., Th., at 8.* 26 O. H. PROFESSOR E. B. VAN VLECK. (VII.)

Course X. is elective for those who have taken Course V.

XI. ELLIPTIC FUNCTIONS. *Mon., Wed., at 11.* 26 O. H. PROFESSOR J. M. VAN VLECK. (IV.)

Course XI. is elective for those who have taken Course X.

[XII. THEORETICAL MECHANICS. *Twice a week.* PROFESSOR J. M. VAN VLECK.]

Course XII. is elective for those who have taken Course V. It is omitted the present year.

XIII. ASTRONOMY. A general course, requiring only elementary mathematics. *Tu., Th., at 9.* 26 O. H. PROFESSOR J. M. VAN VLECK. (VIII.)

Course XIII. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores.

XIV. SPHERICAL AND PRACTICAL ASTRONOMY, based on Chauvenet's Manual, with practical exercises in the observatory. *Wed., Fri., at 12.* 26 O. H. PROFESSOR J. M. VAN VLECK. (V.)

Course XIV. is elective for those who have taken Courses V. and XIII.

Graduate Instruction.

Course XI. is designed primarily for graduate students. Courses VIII., IX., X., XII., and XIV. are intended for graduate students as well as for advanced undergraduates.

PHYSICS.

PROFESSOR CRAWFORD; PROFESSOR ROSA.

I. ELEMENTARY PHYSICS. A general course, involving only elementary mathematics. Text-book, Carhart's University Physics. Mechanics, Hydrostatics, Pneumatics, Electrostatics. *Mon., Fri., at 10 (first half-year).* PROFESSOR ROSA. Heat, Sound, Light. *Mon., Wed., Fri., at 10 (second half-year).* PROFESSOR CRAWFORD. 25 O. H. (III.)

Course I. is required of Classical Sophomores and of Latin-Scientific Sophomores and Scientific Freshmen who did not pass in physics on admission to college.

II. ELEMENTARY PRACTICAL PHYSICS. This course is intended for those who purpose to teach physics, and also as an introductory course for those who expect to take further laboratory work. Two exercises a week, the time required for each exercise being $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (any two of these hours at the discretion of the student).* PHYS. LAB. PROFESSOR CRAWFORD.

Course II. is elective for those who take, or have taken, Course I.

III.¹ ELEMENTARY MECHANICS, involving only elementary mathematics. Text-book, Twisden's Theoretical Mechanics. This course is intended to be supplementary to Course I. Much time is given to the solution of problems. *Tu., Th., at 11 (first half-year).* 25 O. H. PROFESSOR CRAWFORD. (X.)

Course III. is elective for those who take, or have taken, Course I.

IV.² ELEMENTARY ELECTRICITY. This course is a continuation of the work begun in the first half-year in Course I. Text-book, Carhart's University Physics, Part II. *Tu., Th., at 11 (second half-year).* 25 O. H. PROFESSOR ROSA. (X.)

Course IV. is elective for those who take, or have taken, Course I.

[V. HEAT. Stewart's Elementary Treatise on Heat. *First half-year.* SOUND. A course based on Everett's Vibratory Motion and Sound, with extensive supplementary readings. *Second half-year. Twice a week.* PROFESSOR CRAWFORD.]

Course V. is elective for those who have taken Course I. It is omitted the present year.

VI. LIGHT. Emtage's Light, with illustrative experiments, and supplementary lectures. *Mon. at 12; Fri. at 11.* 25 O. H. PROFESSOR CRAWFORD.

Course VI. is elective for those who have taken Course I.

VII. ELEMENTARY APPLIED ELECTRICITY. In the first half-year the work is a continuation of Course I. in the general theory of electricity. In the second half-year the course consists of lectures and of lessons from a text-book giving the modern theory of the electro-magnet, and applying it to dynamos, motors, and other electrical apparatus. This course is, in the main, theoretical rather than

technical. Text-book, Perkins' Electricity and Magnetism. *Mon., Wed., at 11.* 25 O. H. PROFESSOR ROSA. (IV.)

Course VII. is elective for those who have taken Course I.

VIII. PRACTICAL PHYSICS. The experiments in this course involve careful measurements of the nature indicated in such manuals as those of Kohlrausch, Glazebrook and Shaw, Carhart and Patterson, and Stewart and Gee. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).*

Course VIII. is elective for those who have taken Course I.

IX. PRACTICAL PHYSICS. A continuation of Course VIII. In the department of electricity opportunity is afforded for some shop-work, and for extended investigation of the problems connected with transformers and with alternating currents in general. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).*

Course IX. is elective for those who have taken Course VIII.

Students taking Courses V.-IX. are advised to take, if they have not already taken, Course V. in Mathematics.

In Courses VIII. and IX. the work in mechanics, sound, light, and heat is carried on in the physical laboratory in Observatory Hall, under Professor Crawford; the work in electricity in the electrical laboratory, under Professor Rosa.

X. MATHEMATICAL THEORY OF ELECTRICITY. This course is based upon J. J. Thomson's Mathematical Theory of Electricity and Magnetism. The differential and integral calculus is freely used, and an acquaintance with differential equations and analytical geometry of three dimensions is also helpful to those taking the course. *Tu., Th., at 9.* 25 O. H. PROFESSOR ROSA. (VIII.)

Course X. is elective for those who take, or have taken, Course VII.

[XI. ALTERNATING CURRENTS OF ELECTRICITY. A course on the theory of periodic currents and their practical applications. *Twice a week.* PROFESSOR ROSA.]

Course XI. is elective for those who have taken Course VII. in physics, and Course V. in mathematics. It is omitted the present year.

XII. JOURNAL MEETING. The instructors of the department meet the graduate students and advanced undergraduates for the purpose of reporting and discussing articles from the current journals of general physics and electricity. *Tu. at 8.* 25 O. H.

Graduate Instruction.

XIII. PHYSICAL SEMINARY. In this course special topics are chosen for more thorough and extended study than is possible in any of the other courses. Last year the subject considered was the Kinetic Theory of Matter. This year the topics chosen are the Elastic Solid Theory, and the Electromagnetic Theory, of Light. *Wed. at 9. 25 O. H.* PROFESSORS CRAWFORD AND ROSA.

Courses IX-XII. are intended for graduates and advanced undergraduates, Course XIII. for graduates only.

CHEMISTRY.

PROFESSOR ATWATER; PROFESSOR BRADLEY; DR. BENEDICT.

I. ELEMENTARY CHEMISTRY. This course is devoted to the elementary principles of the science. Each student performs a considerable number of experiments in the laboratory. *Tu., Th., at 10.* 3 J. H. PROFESSORS ATWATER AND BRADLEY. (IX.)

Course I. is required of Classical Sophomores, and of Latin-Scientific Sophomores and Scientific Freshmen who did not pass in chemistry on admission to college.

II.¹ ELEMENTARY CHEMISTRY; a continuation of Course I. A course of lectures on the general principles and some of the applications of chemistry. *Tu., Th., at 11 (first half-year).* 3 J. H. PROFESSOR ATWATER. (X.)

Course II. is elective for those who have taken Course I.

III. QUALITATIVE ANALYSIS. A practical course in basic, acid, and blow-pipe analysis. Lectures are given on the chemical problems involved in the detection of the more common metals. Each exercise occupies 2½ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week).* CHEM. LAB. PROFESSOR BRADLEY.

Course III. is elective for those who have taken Course I.

IV. QUANTITATIVE ANALYSIS. A practical course in quantitative analysis and special laboratory exercises adapted to the wants of individual students. Each exercise occupies 2½ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week).* CHEM. LAB. PROFESSOR ATWATER AND DR. BENEDICT.

Course IV. is elective for those who take, or have taken, Courses II. and III. It may be elected for part of the year, the quota of hours to be completed for the rest of the year from Course VIII.

V. ORGANIC CHEMISTRY. Lectures and recitations. The principles of organic chemistry, as illustrated by the derivatives of methane and benzene. *Mon., Wed., Fri., at 8.* 3 J. H. PROFESSOR BRADLEY. (I.)

Course V. is elective for those who have taken Course III. Those who take Course X. may elect Course V. for the first half-year only.

VI.² PHYSIOLOGICAL CHEMISTRY. Lectures on selected chapters of physiological chemistry. Special attention is given to the chemistry of the animal body. *Tu., Th., at 11 (second half-year).* 3 J. H. PROFESSOR ATWATER. (X.)

Course VI. is elective for those who have taken Course II. It is desirable that those who elect it should also elect Course V.

VII. ORGANIC CHEMISTRY. A practical course in the preparation of compounds of carbon. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week).* CHEM. LAB. PROFESSOR BRADLEY.

Course VII. is elective for those who have taken Course III. It is desirable that this course be taken in connection with, or after, Course V.

VIII. PHYSIOLOGICAL CHEMISTRY. A practical course in the preparation of compounds of interest in physiological chemistry. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week).* CHEM. LAB. PROFESSOR ATWATER AND DR. BENEDICT.

Course VIII. is elective for those who take, or have taken, Courses V. and VI., and may be elected for the second half-year alone. See note under Course IV.

Courses VI. and VIII. are recommended to those who purpose to study medicine.

IX. THEORETICAL CHEMISTRY. A series of lectures upon the origin, development, and present status of the theory of the atom and molecule. *Wed., Fri., at 9.* 3 J. H. PROFESSOR BRADLEY. (II.)

Course IX. is elective for those who have taken Course III.

X.² CHEMISTRY OF THE SYNTHETIC DYES. A course of lectures on the synthesis and constitution of organic compounds as illustrated by the so-called anilin colors. *Twice a week (second half-year), the hours to be determined hereafter.* 3 J. H. DR. BENEDICT.

Course X. is elective for those who have taken Course V. during the first half-year.

XI. CHEMICAL SEMINARY. A course of instruction and reading in biological chemistry. *Tu., Th., at 8.* 1 J. H. PROFESSOR ATWATER.

Course XI. is elective for those who take, or have taken, Courses V. and VI.

Graduate Instruction.

Course XI., although elective for undergraduates, is designed chiefly for graduates. Laboratory courses of research in physical, physiological, and organic chemistry may be arranged.

GEOLOGY.

PROFESSOR RICE.

I. ELEMENTARY GEOLOGY. A course of lectures, chiefly on dynamical and structural geology. Dana's Revised Text-book of Geology is recommended for reference. *Tu., Th., at 12.* 8 J. H. (XI.)

Course I. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores.

II.¹ DYNAMICAL AND STRUCTURAL GEOLOGY. Advanced course. Recitations and lectures, with Le Conte's Elements of Geology, and Dana's Revised Text-book of Geology, as text-books. Special topics for study, with bibliographical references, are assigned to each member of the class. Lectures on these topics by the members of the class are discussed and criticized. Excursions are taken on Saturdays during the fall. The phenomena observed in an excursion are discussed at the next meeting of the class, one of the members of the class generally giving a report or lecture. *Mon., Wed., Fri., at 12 (first half-year), counting as four times a week.* 8 J. H. (V.)

Course II. is elective for those who have taken Course I. It is desirable, however, that those who take this course should also have taken the courses in physical geography and mineralogy.

III.² HISTORICAL GEOLOGY AND PALEONTOLOGY. Recitations and lectures, with same text-books as in Course II. Lectures on special topics by members of the class, as in Course II. Excursions are taken on Saturdays during the spring (required only of those who take also Course II.). *Mon., Wed., Fri., at 12 (second half-year), counting as four times a week for those who take also Course II.* 8 J. H. (V.)

Course III. is elective for those who have taken Course I. It is very desirable, however, that those who take this course should also have taken the courses in zoölogy and botany.

IV.¹ PHYSICAL GEOGRAPHY. Recitations and lectures, with Tarr's Elementary Physical Geography as a text-book. *Mon., Fri., at 3 (first half-year).* 8 J. H. (VI.)

Course IV. (in connection with II. and III. Biology) is elective for Classical Sophomores, and required of Latin-Scientific and Scientific Freshmen who did not pass in physical geography on admission to college.

V.¹ MINERALOGY. Crystallography and optical mineralogy. Lectures and practical exercises. Dana's Text-book of Mineralogy is used for reference. *Mon., Wed., Fri., at 11 (first half-year).* 8 J. H. (IV.)

Course V. is elective for Classical and Latin-Scientific Juniors and Scientific Sophomores.

VI.² MINERALOGY. Determinative and descriptive mineralogy. Laboratory work in determinative mineralogy, lectures on descriptive mineralogy. Brush's Manual of Determinative Mineralogy, and Dana's Text-book of Mineralogy, are used for reference. *Mon., Wed., Fri., at 11 (second half-year).* 8 J. H. (IV.)

Course VI. is elective for those who have taken Course V.

Graduate Instruction.

Courses II., III., V., and VI., although intended primarily for undergraduates, have often been taken by graduate students.

Additional work is provided for graduate students. This may include courses of reading in various branches of geological science, field-work, or laboratory work in mineralogy and lithology.

BIOLOGY.

PROFESSOR CONN.

I. PHYSIOLOGY. The instruction is given chiefly by lectures, Martin's Human Body being used as a text-book. Enough anatomy is given to render the physiological discussions intelligible, and enough hygiene to guide to an intelligent care of the body. *Mon., Wed., at 8.* 8 J. H. (I.)

Course I. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores.

II. GENERAL BIOLOGY. This course is devoted to the study of the simpler laws of life, and the relations of animals and plants. Practical study is made of the earthworm, the frog, and some common plants, which are used as illustrating the general structure and physiology of animals and plants. This course is designed as an introduction to the study of botany, zoölogy, and physiology. SECTION 1, *Tu., 2-4*; SECTION 2, *Wed., 2-4, two hours counting as one.* 8 J. H. (VI.)

Course II. (in connection with IV. Geology and III. Biology) is elective for Classical Sophomores, and is required of Latin-Scientific and Scientific Freshmen.

III.² BOTANY. This course is a continuation of Course II., and consists of lectures, and of a large amount of practical work. It includes the study of physiological, morphological, structural, and microscopic botany. The course begins with the study of cryptogams, followed by a study of phenogams. The last four weeks are devoted to the analysis and description of flowers. *Mon., Fri., 2-4 (second half-year), two hours counting as one.* 8 J. H. (VI.)

Course III. (in connection with IV. Geology and II. Biology) is elective for Classical Sophomores, and is required of Latin-Scientific and Scientific Freshmen who did not pass in botany on admission to college.

IV. ZOÖLOGY. Lectures and recitations. Typical examples, illustrating the various groups of the animal kingdom, are described, attention being given rather to the general laws governing living beings than to the systematic classification of species. The course includes the embryology of the various forms studied, as well as their adult anatomy. The last term is devoted to the study of comparative anatomy and of general zoölogical problems. *Wed., Fri., at 9.* 8 J. H. (II.)

Course IV. is elective for Classical Juniors and for Latin-Scientific and Scientific Sophomores.

V. PRACTICAL BIOLOGY. The design of the courses in practical biology is to furnish opportunity for special biological work along such lines as may be best adapted to the future plans of the students. Seniors intending to study medicine devote their attention largely to physiology, histology, and the dissection of some mammal. Those desiring a more general course make a brief examination of various groups of the animal and vegetable kingdoms.

Those electing the study for two years spend the first year in the study of biology in general, making a careful study of illustrative types from the different groups of the animal and vegetable kingdoms, such as amœba, infusoria, hydra, earthworm, bacteria, yeast, mould, lichens, mosses, flowering plant, etc. The laboratory work is planned to illustrate, as far as possible, the principles of biology, comparative anatomy, and embryology. Each exercise occupies 2½ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* BIOL. LAB.

Course V. is elective for Juniors.

VI. PRACTICAL BIOLOGY. Advanced course. The second year is devoted to the study of histology, bacteriology, embryology, and mammalian anatomy. During the second half-year each student pursues some special work assigned by the instructor. Each exercise occupies 2½ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* BIOL. LAB.

Course VI. is elective for those who have taken Course V.

A course of weekly lectures on cytology is given during the present year to those electing Courses V. and VI.

VII.¹ EVOLUTION. A course of lectures and recitations, giving an outline of the general theory of evolution. *Tu., Th., at 8.*
8 J. H. (VII.)

Course VII. is elective for Juniors.

[VIII. BACTERIOLOGY. A course of lectures giving the history of bacteriology from the seventeenth century to the present time. *Once a week.*]

Course VIII. is elective for those who take, or have taken, Course V.

Courses VII. and VIII. are given in alternate years, Course VIII. being omitted the present year.

Candidates for special honors in biology are especially recommended to take at least one summer course in the marine laboratory at Cold Spring Harbor.

Graduate Instruction.

Courses VI. and VIII., although elective for undergraduates, are designed also for such graduates as have not already specialized in biology.

Graduate courses of research are provided, consisting mainly of laboratory work, accompanied by collateral reading.

A Journal Club meets weekly to discuss current biological science.

EXAMINATION GROUPS.

No student is allowed to take more than one course in any of these groups, with the exception of those (bracketed together) which are not given in the same half-year. The following courses are not assigned to any group, and they may be elected without limitation: VI. Latin; VIII., XI. Greek; III. German; III., V., VII. French; VIII., IX. English Language; IX. History; VIII. Economics; IX., X. Philosophy; I., VI. Mathematics; II., VI., VIII., IX., XII., XIII. Physics; III., IV., VII., VIII., X., XI. Chemistry; V., VI. Biology.

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|--|--|
| <p>I.—<i>M., W., F., at 8.</i>
 IV. Greek.
 I. German.
 I. French.
 IV. English Literature, <i>W.</i>
 V. Economics, <i>M., F.</i>
 V. Chemistry.
 Physiology, <i>M., W.</i></p> | <p>{ Ethics, <i>W., F.</i>
 { Evidences, <i>W., F.</i>
 I. Physics.</p> |
| <p>II.—<i>M., W., F., at 9.</i>
 I. Latin, <i>also Th.</i>
 VII. Greek.
 IV. French, <i>W., F.</i>
 II. English Literature.</p> | <p>IV.—<i>M., W., F., at 11.</i>
 I. Greek, <i>T., W., Th., F.</i>
 II. German.
 { VII. Philosophy, <i>W., F.</i>
 { VIII. Philosophy, <i>W., F.</i>
 XI. Mathematics, <i>M., W.</i>
 VII. Physics, <i>M., W.</i>
 Mineralogy.</p> |
| <p>{ Rhetoric.
 { Logic, <i>W., F.</i>
 VI. History, <i>M., W.</i>
 { XI. Philosophy, <i>M. (at 8), F.</i>
 { XII. Philosophy. [<i>(at 9).</i>
 IX. Chemistry, <i>W., F.</i>
 Zoölogy, <i>W., F.</i></p> | <p>V.—<i>M., W., F., at 12.</i>
 II. Greek, <i>W., F., also T., Th.</i>
 I. English Literature.
 { II. Economics.
 { III. Economics.
 V. Mathematics.
 XIV. Mathematics, <i>W., F.</i></p> |
| <p>III.—<i>M., W., F., at 10.</i>
 { Psychology.
 { I. Economics.</p> | <p>{ II. Geology.
 { III. Geology.</p> |

VI.—*M., W., F., at 3.*

- III. Greek, *M.* (*at 12*).
- IV. German, *M.*
- VII. English Language, *F.*
- VII. History, *M., W.*
- IV. Mathematics, *W., F.* (*at 2*).
- { Physical Geography, *M., F.*
- { Botany, *M., F.*
- * General Biology, *W.*

VII.—*T., Th., at 8.*

- II. French.
- I. History.
- X. Mathematics.
- Evolution.

VIII.—*T., Th., at 9.*

- { IV. Latin.
- { V. Latin.
- V. German.
- VI. English Language.
- IV. Economics.
- Astronomy.
- X. Physics.

IX.—*T., Th., at 10.*

- V. History.
- English Bible.
- VII. Mathematics.
- I. Chemistry.

X.—*T., Th., at 11.*

- { VII. Latin.
- { VIII. Latin.
- { VI. Economics.
- { VII. Economics.
- { IV. Philosophy.
- { VI. Philosophy.
- † V. Philosophy, *M.*
- II. Mathematics.
- { III. Physics.
- { IV. Physics.
- { II. Chemistry.
- { VI. Chemistry.

XI.—*T., Th., at 12.*

- IV. History.
- Theism.
- IX. Mathematics.
- I. Geology.

XII.—*T., Th., at 3.*

- { II. Latin.
- { III. Latin.
- Italian.
- I. A English Language, *Th.*
- I. B English Language, *T.*
- Elocution.
- III. Philosophy.

* May be elected with Physical Geography and Botany.

† May be elected with either IV. or VI. Philosophy.

SELECTION OF STUDIES.

The studies which are required of students in the respective classes and courses are indicated below. In addition to these, each student of the three upper classes is required to elect such a number of studies that his *average* number of recitations and lectures a week for the year, exclusive of rhetorical exercises, shall be not less than 14 nor more than 17. The minimum requirement for Freshmen is 15 recitations and lectures a week for the year, exclusive of declamations; the maximum is 17. Elections must be made in accordance with the restrictions specified in the description of the respective courses in the foregoing statement of the courses of instruction. *No student is allowed to take more than one course in any examination group (see pages 64, 65), with the exception of those which are not given in the same half-year.*

SCHEDULE OF REQUIRED STUDIES.

N. B.—The numbers in *italics* indicate the average number of hours a week for the year.

CLASSICAL COURSE.

FRESHMEN:—I. Latin, 4; I. Greek, 4; I. Mathematics, 4; I. A or I. B English Language, 2; I. German, or I. French, 3.

SOPHOMORES:—Rhetoric and Logic, 2½; I. Physics and I. Chemistry, 4½; also one of the following combinations:—1. Not less than one course of two hours a week in each of the three departments of Latin, Greek, and Mathematics. 2. Not less than five hours a week of electives in Mathematics and Physics, both Latin and Greek being dropped. 3. Not less than five hours a week in Latin and Greek, and not less than one course of two hours a week in each of those departments.

JUNIORS:—Psychology, 1½; I. Economics, 1½.

SENIORS:—Ethics, 1; Evidences of Christianity, 1.

LATIN-SCIENTIFIC COURSE.

FRESHMEN:—I. Latin, 4; I. Mathematics, 4; I. A or I. B English Language, 2; Physical Geography, General Biology, and Botany, 3; I. or II. French, or I. or II. German, 2 or 3. (See page 42.)

SOPHOMORES:—Rhetoric and Logic, 2½; I. Physics and I. Chemistry, 4½.

For such part of the courses in science or modern languages above named as students may have passed in at entrance, they will be allowed to substitute enough elective work to fill out the required quota of exercises a week.

JUNIORS:—Psychology, 1½; Economics, 1½.

SENIORS:—Ethics, 1; Evidences of Christianity, 1.

SCIENTIFIC COURSE.

FRESHMEN:—Not less than fifteen hours a week of the following courses: I. Mathematics, 4; I. A or I. B English Language, 2; I. German, 3, and II. French, 2, or II. German, 3, and I. French, 3 (see page 42); I. Physics and I. Chemistry, 4½; Physical Geography, General Biology, and Botany, 3.

For such of these studies as students may have passed in at entrance, they are allowed to substitute elective work.

SOPHOMORES:—II. German, 3, or II. French, 2 (see page 42); Rhetoric, 1½; Logic, 1; Astronomy, 2; Geology, 2; Physiology, 2.

JUNIORS:—Psychology, 1½; I. Economics, 1½.

SENIORS:—Ethics, 1; Evidences of Christianity, 1.

In addition to the courses indicated in the foregoing statement, exercises in English composition and public speaking are required of all classes, as specified on pages 43-47.

<p>11. I. Latin, 2. II. German. III. English Literature, 2. IV. Philosophy (1st half). V. Philosophy (2d half). VI. Mathematics. VII. Physics. VIII. Mineralogy.</p>	<p>VII. Latin (1st half). VIII. Latin (2d half). I. Greek, 2. VI. Economics (1st half). VII. Economics (2d half). IV. Philosophy (1st half). V. Philosophy (2d half). II. Mathematics.</p>	<p>English Bible. I. Economics (1st half). II. Economics (2d half). Ethics (1st half). Evidences (2d half). I. Mathematics, 2. VII. Mathematics. I. Chemistry. Declamation (Juniors, 3,4).*</p>	<p>I. Latin, 2. VII. Latin (1st half). VIII. Latin (2d half). I. Greek, 2. III. German. VIII. English Literature, 2. VII. Philosophy (1st half). VI. Economics (1st half). VII. Economics (2d half). IV. Philosophy (1st half). XI. Mathematics.</p>	<p>I. Latin, 2. I. Greek, 2. II. German. III. French. VIII. English Literature, 2. VII. Philosophy (1st half). VIII. Philosophy (2d half). XI. Mathematics.</p>	<p>English Bible. I. Economics (1st half). II. Economics (2d half). Ethics (1st half). Evidences (2d half). I. Mathematics, 2. VII. Mathematics. I. Chemistry. Declamation (Juniors, 3,4).*</p>	<p>I. Latin, 2. I. Greek, 2. II. German. III. English Literature, 2. VII. Philosophy (1st half). VI. Economics (1st half). VII. Economics (2d half). IV. Philosophy (1st half). XI. Mathematics.</p>	<p>I. Latin, 2. I. Greek, 2. II. German. III. French. VIII. English Literature, 2. VII. Philosophy (1st half). VIII. Philosophy (2d half). XI. Mathematics.</p>
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<p>IV. German. I. French, 2. VII. English Language. Physical Geography (1st half). III, IV, VII, VIII. Chemistry, 1st half. Botany (2d half).</p>	<p>II. Latin (1st half). III. Latin (2d half). Italian. II. English Language. II. Elocution. III. Philosophy. General Biology, 1. V., VI. Biology.</p>	<p>General Biology, 2. V., VI. Biology. Declamation (Juniors, 1, 5). Declamation (Sophomores, 4).</p>	<p>II. Latin (1st half). III. Latin (2d half). Italian. I. English Language. II. Elocution. Psychology, 2 (1st half). III. Philosophy. II, VIII, IX. Physics. V., VI. Biology.</p>	<p>I. French, 2. VII. English Language. Logic, 2 (2d half). Physical Geography (1st half). III, IV, VII, VIII. Chemistry, 1st half. Botany, (2d half).</p>
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Declamation (Freshmen, 4).*

General Biology, 2.
V., VI. Biology.
Declamation (Juniors, 1, 5).
Declamation (Sophomores, 4).*

Botany (2d half).

DAILY PROGRAM.

The order of lectures and recitations is set forth in the table given on pages 68 and 69. In that table the sign * indicates that an exercise occurs only occasionally, the particular days to be announced by the instructor. Roman numerals preceding the names of certain studies refer to the numbers of the courses as enumerated in the foregoing statement of courses of instruction. Arabic numerals, following the names of certain studies, indicate the sections into which the classes are divided.



GENERAL REGULATIONS.*

QUOTA OF STUDIES.

For students of the three upper classes, the quota of regular studies is, for a minimum, fourteen hours, and for a maximum, seventeen hours of class-room work a week, exclusive of rhetorical exercises. The quota for Freshmen is, for a minimum, fifteen hours, and for a maximum, seventeen hours of class-room work a week, exclusive of declamations. No student is allowed to take less than fourteen, nor more than seventeen, hours of work a week without special permission from the Faculty.

GRADES.

The general character of the work of each student in each study is indicated by his assignment to one of five grades, grade 1 denoting the highest excellence, and grade 5, failure to pass. The Secretary of the Faculty sends to each student, within three weeks after Commencement, a report of his grades in all the studies which he has taken during the year.

EXAMINATIONS.

Regular examinations are held at the end of the college year, and during a specified period in February, according to the times at which the respective studies are completed. No student who has been absent from fifteen per cent. or more of the required exercises in any study can be admitted to examination in that study, except by special permission from the Faculty. Such permission may be accorded when the Faculty are convinced that the absences have not been due to culpable negligence. In the application of this rule, absences from the first or the last exercise of a term, in any study, or consecutive

* Copies of the detailed Regulations may be obtained from the Secretary.

absences including the first or the last exercise, are each reckoned as two absences.

To students who, for any reason, have not passed at a regular examination, opportunities for special examinations are given at specified times. If a student fails to pass a final examination in any study before that study is taken up by the next succeeding class, he is required, unless specially excused therefrom, to recite with that class. A student who, at the close of the special examinations held at the beginning of the year, is deficient by an amount equivalent to six or more hours of work a week for a year, is ranked with the next lower class, unless specially excused therefrom by the Faculty.

ENTRANCE CONDITIONS.

A student who fails to make up entrance conditions before the first day of November of the next college year, is excluded from all recitations until the conditions are made up.

PUBLIC WORSHIP.

Devotional services, at which the attendance of students is required, are held in the College Chapel every morning.

Every student is required to attend the Sunday morning service in some one of the churches in the city.

A limited number of absences from chapel and church are allowed, without the presentation of any excuse.

Voluntary religious services under the direction of the several college classes and of the Young Men's Christian Association are held weekly.

ATHLETIC AND MUSICAL ORGANIZATIONS.

No member of the Senior or Junior class who is deficient in his college work more than three hours a week for a year, and no member of the Sophomore class who is deficient more than four hours a week for a year, is allowed to take part in any athletic contest with another team, except by special permission; and any student who becomes notably deficient in his work during the year may be debarred from taking part in such a contest.

Members of the college musical organizations, who are deficient as specified in the preceding paragraph, are not allowed to appear in public concerts given by those organizations.

No student under censure is allowed to serve, without permission of the Faculty, in any capacity on an athletic organization, or on a musical association giving public concerts.

LEAVE OF ABSENCE.

A student who desires excuse from college exercises on account of absence from town must apply to the President for permission to be absent, and, unless the circumstances of the case render it impracticable, such permission must be obtained before the student's departure.

EXPENSES.

The annual charges in the Treasurer's bill are as follows:—

Tuition,	-	-	-	-	-	-	-	-	\$75 00
Rent and care of half-room, unfurnished, from \$22									
to \$40; average,	-	-	-	-	-	-	-	-	30 00
Steam heat; average for half-room,									9 00
General repairs and incidentals (lighting, heating,									
and care of public rooms, gymnasium fee, etc.),									27 00
Use of library and reading-rooms,	-	-	-	-	-	-	-	-	6 00
Total,	-	-	-	-	-	-	-	-	\$147 00

A fee of five dollars a term is charged to each student in practical physics, and also to each student in practical biology.

Students in practical chemistry are charged the following fees, per term: for organic chemistry, ten; for quantitative analysis, eight and one-third; and for qualitative analysis, five dollars. A moderate additional charge is made for breakage.

Ladies residing in the Ladies' Hall are charged at the rate of five dollars and a half a week for board and room-rent. Those residing elsewhere in the city are charged two dollars a term for the use of the study-room in the Ladies' Hall.

A diploma fee of five dollars is charged to each student at graduation.

A diploma fee of ten dollars is charged to each graduate student upon promotion to the Master's degree.

The college bills are payable at the commencement of each term; a rebate of one dollar is made on all college bills that are paid on or before the day appointed. Unless the bill for any term is paid, or payment thereof satisfactorily secured, before the commencement of the following term, the student is liable to exclusion from recitations.

No student can have an honorable dismissal, or certificate of progress in his studies, until his bills are paid or payment thereof secured.

A student who is absent from college on account of sickness, or for other cause, and who retains his place in his class, must pay the full college bills during his absence.

The rooms in the college buildings are rented to students during term time only, and must be vacated at the close of the third term. Students are held accountable for any damage done to their rooms. During the summer vacation the rooms are put in order, and the expense charged to the occupants.

Students are permitted to take lodgings in town, but the places in which they room or board are in all cases subject to the approval of the Faculty. If, however, any of the rooms in the college are thus left vacant, the rent of such rooms may be charged to holders of free scholarships who room in town.

Board may be obtained in private families at prices varying from \$3.75 to \$5.00 a week. A large majority of the students board in clubs, at prices ranging from \$3.00 to \$4.00 a week.

Other expenses incident to college life vary with the habits and circumstances of the student. They are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and health have been compelled to leave the college for want of money.



MATERIAL EQUIPMENT.

LIBRARY AND READING-ROOMS.

THE LIBRARY in Rich Hall contains about fifty-four thousand volumes. The library is open every week-day of the college year from 8:15 A. M. to 10 P. M. Students are allowed direct access to the shelves. Copies of the library rules may be obtained from the librarian.

The late Albert Sanford Hunt, D. D., of the class of 1851, a trustee of the University, has willed to the University his valuable library of five thousand three hundred volumes and more than two thousand pamphlets, and a fund of thirty thousand dollars, the income to be spent in the purchase of books.

On the first floor of North College is a reading-room, provided with the principal newspapers, daily and weekly. Another reading-room, on the second floor of Rich Hall, contains the current issues of the most important magazines and reviews, literary and scientific, American and foreign.

ASTRONOMICAL OBSERVATORY.

THE OBSERVATORY is used for purposes of instruction, and is well equipped therefor. Students in astronomy have frequent opportunities to examine the most interesting celestial objects through the telescope; and members of the class in practical astronomy are instructed in the theory and use of all the instruments in the observatory.

The principal instruments are an equatorial of twelve inches aperture, by Alvan Clark & Sons, provided with a filar micrometer and spectroscopes, solar and stellar, two of which have very high dispersive power; a transit instrument of three inches aperture, with collimators of the same aperture, and adapted to use as a zenith telescope; a prime vertical instrument of the same size; sextants; two astronomical clocks; a chronometer; and a chronograph.

LABORATORIES AND APPARATUS.

THE LABORATORY OF EXPERIMENTAL PSYCHOLOGY contains a collection of apparatus for illustration and experiment in the field of physiological and experimental psychology. The equipment is now sufficient for a thorough course with demonstration and for some advanced research. Among the principal pieces of apparatus are brain models, a Hipp chronoscope, Helmholtz's rotation apparatus, Schumann's "Zeitsinn" apparatus, as phygmograph, a plethysmograph, stereoscopes, tuning forks, electrical supplies, etc. The laboratory occupies at present the same room as the philosophical seminary, No. 7 South College.

THE PHYSICAL LABORATORY is equipped with apparatus for the performance of most of the experiments usually undertaken in undergraduate courses; while, in the department of electricity, facilities are afforded for instruction in the use of all important electrical instruments and machines. The laboratory work in all departments except electricity is carried on in the rooms on the ground floor of Observatory Hall. The building originally used as a chemical laboratory has been transformed into an electrical laboratory. In the steam heating plant, located at a convenient distance from the electrical laboratory, is the dynamo room containing a 25 horse-power engine, several dynamos and motors, transformers, and testing instruments.

THE CHEMICAL LABORATORY occupies seven rooms in Judd Hall. A large working-room on the first floor, with a balance room adjoining, furnishes accommodations for about fifty students, and smaller rooms afford conveniences for the work of instructors, assistants, and graduate students. Two other rooms on the first floor are used for library, seminary, and office purposes. A large room in the basement serves for the laboratory work of the required course in elementary chemistry.

THE BIOLOGICAL LABORATORY occupies six rooms in Judd Hall, and is capable of accommodating about thirty students. Four rooms are used for general laboratory purposes, of which one is used for miscellaneous laboratory work, one for physiological work, one for coarse dissection, and one for bacteriological work. The laboratory is equipped with all the apparatus necessary for elementary biological work, together with abundance of material for anatomical and histological study. The general laboratory room is provided with a type collection illustrating all orders of animals, and students are allowed to use the large museum collection for comparison and direct study.

THE MECHANICAL LABORATORY occupies the west room in the steam-heating plant, and is in charge of a skilled mechanic. This laboratory affords facilities not only for the repair of apparatus belonging to the college and the construction of special pieces of new apparatus which may be designed by the professors or by the mechanic, but also for the instruction of students who find a certain degree of mechanical skill necessary to complete their training in the scientific departments.

The rooms of the biological, physical, and mechanical laboratories are lighted by electricity.

MATHEMATICAL MODELS. This collection, the gift of Ebenezer Hill, Esq., of the class of 1870, comprises a complete set of the models made by Brill of Darmstadt, for illustration in the higher branches of mathematics, as well as in mathematical physics and crystallography. The models are arranged in a series of cases in a room adjoining the mathematical lecture room in Observatory Hall.

GYMNASIUM AND ATHLETIC FIELD.

THE FAYERWEATHER GYMNASIUM is located on the north side of the rear campus, parallel with Wyllys Avenue. Its dimensions are 55 by 120 feet.

The basement contains two bowling alleys, a base-ball cage, baths, lockers, and toilet rooms.

On the first floor is the main hall of the gymnasium, which is well equipped and affords ample room for every variety of gymnastic exercise. The director's office and rooms for baths and lockers are also on the first floor. The running track is suspended from the roof, above the main floor. On the second floor is a committee room for the use of the various athletic organizations, as well as additional baths and lockers. Special attention has been paid to ventilation, drainage, and lighting, and the present structure is believed to contain the best features of a modern gymnasium.

The gymnasium is in charge of a competent director. Exercise in the gymnasium is required of the men of the Freshman and Sophomore classes, three hours a week, from Thanksgiving to the end of the winter term. Elective work in the gymnasium is offered to the men of the Junior and Senior classes.

Through the generosity of Mr. J. E. Andrus, of the class of 1862, a trustee of the University, a well equipped athletic field is now in

course of construction. The field is in the rear of the main line of college buildings, just south of the gymnasium. A quarter-mile cinder track, with a "straight-away" of 200 yards, encircles one portion of the field, within which ample room is afforded for baseball, foot-ball, and field and track athletics. The entire field, covering seven acres, provides sufficient space for class and 'varsity teams to practice at the same time. Its proximity to the college enables the whole student body to keep in touch with the training in all branches of athletics, and affords the teams an opportunity to use the dressing rooms and baths, reserved for them in the gymnasium.

MUSEUM.

THE MUSEUM OF NATURAL HISTORY AND ETHNOGRAPHY occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with special reference to their educational use, and are freely accessible to students.

The nucleus of the departments of zoölogy and botany was formed by the Shurtleff collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The Zoölogical Department has received since 1872 most important accessions in liberal donations and exchanges from the Smithsonian Institution, and in collections made by the curators on the coast of New England, through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland have also added large and valuable collections. This department includes about thirteen thousand species. The vertebrata of North America, the marine invertebra of New England, and the mollusca in general, are especially well represented.

The Herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many specimens from foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the University in 1879.

The Mineralogical Department includes about four hundred species, and a much larger number of varieties. The Franckfort collection, purchased in 1858, contains many choice specimens, mostly from European localities. The minerals of the interesting region in which Middletown is situated are well represented by collections commenced by the labors of Professor Johnston, and largely increased by accessions within the last few years.

The Geological Department includes collections in lithology, physical geology, and paleontology. A suite of Ward's casts of fossils, presented by Orange Judd, M. A., in 1871, serves an excellent purpose in the work of instruction, affording the student a representation of many remarkable forms of ancient life, actual specimens of which are rare or unique. The collections in paleontology have been very largely increased within the last few years, by the work of the present curator in the vicinity of Middletown, at Valcour Island, Lake Champlain, in western Maryland, in the vicinity of Chattanooga, Tenn., Canon City, and Florissant, Col., and Fossil, Wyo. A choice collection of European fossils, including a number of beautiful specimens from the lithographic limestone of Solenhofen, has been recently received in exchange from the Museum of Munich.

The Ethnographical Department includes a large collection of Indian relics; a valuable collection of pottery from the guano beds of Peru, presented by the late Joseph S. Spinney; an interesting collection of weapons and other objects from the South Sea Islands; and a remarkably full series of objects illustrative of Chinese life and customs, presented by Rev. Marcus L. Taft, D. D. In connection with the ethnographical department of the museum should be mentioned a collection of coins, numbering over 3,000, exclusive of duplicates. Included in this number is a collection of 1,750 Chinese coins, some of which are ancient and very rare, presented by Rev. Marcus L. Taft, D. D. The greater part of the ethnographical collection is at present arranged in the lower hall of the museum, with the collections in mineralogy and geology. The coins (with the exception of a small selection placed on exhibition in the museum) are kept in a case in the library, where they can be seen by students and others on special application. Small collections illustrative of classical archæology are kept in the seminary rooms.

The following is an approximate statement of the number of specimens in the various departments of the museum:—

DEPARTMENT OF ZOÖLOGY.

Mammals—skins mounted and unmounted,	-	-	-	200
alcoholic, - - - - -	-	-	-	50
skulls and skeletons, - - - - -	-	-	-	110
Birds—skins mounted and unmounted,	-	-	-	1,500
nests and eggs, - - - - -	-	-	-	600
Reptiles, - - - - -	-	-	-	350
Amphibians, - - - - -	-	-	-	150

Fishes, - - - - -	2,100
Insects—pinned and alcoholic, - - - - -	6,500
nests, borings, etc., - - - - -	50
Crustacea, - - - - -	1,500
Worms, - - - - -	1,800
Mollusks—shells, - - - - -	90,000
alcoholic, - - - - -	4,000
Echinoderms, - - - - -	1,000
Cœlentera, - - - - -	1,700
Sponges and protozoa, - - - - -	150

DEPARTMENT OF BOTANY.

Plants in herbarium, - - - - -	10,700
Specimens of wood, - - - - -	300
Miscellaneous botanical specimens, - - - - -	600

DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks, - - - - -	13,200
Fossils—Paleozoic, - - - - -	9,000
Mesozoic, - - - - -	2,500
Cenozoic, - - - - -	3,000

DEPARTMENT OF ETHNOGRAPHY.

Miscellaneous ethnographic specimens, - - - - -	2,800
Coins, - - - - -	5,000

The museum is open to the public on Wednesday and Saturday afternoons.



SCHOLARSHIPS.

TUITION SCHOLARSHIPS.

A limited number of scholarships, exempting the holders from the charge for tuition, have been established by the Trustees, and are available, at the discretion of the President, for the use of deserving students who need pecuniary assistance.

In addition to these are the following:—

THE JOHN EVANS SCHOLARSHIP.

This scholarship was founded by Mrs. Ann Evans in memory of her husband. The income is about one hundred dollars, and is given annually to that member of the Senior or Junior class who is named by the Board of Trustees, or by some authority to whom they may delegate the nomination. For this scholarship, only such students as are preparing themselves for the ministry, and are already licentiates in the Methodist Episcopal Church, can be candidates.

THE SQUIRE SCHOLARSHIP.

This scholarship was founded by Hon. Watson C. Squire, B. A. In accordance with its provisions, the income of \$5,000 is awarded to that member of the Senior class who passes the best examination in Greek, provided that the successful candidate devote the ensuing year to classical study, in residence in the University, or in connection with travel or residence abroad, at his option, subject to the approval of the Committee on Graduate Instruction.

THE JONES SCHOLARSHIP.

This scholarship was founded by Frank S. Jones, Esq. The income, amounting to fifty dollars, is available, at the discretion of the President, for the use of a deserving student who needs pecuniary assistance.

COLLEGE HONORS.

PRIZES.

The Harrington Prize, the gift of Rev. Edmund Mead Mills, D. D., in memory of Professor C. S. Harrington, is awarded for the best essay on some specified subject in the department of history. The subject for the essay of 1899 is Thomas Jefferson and the Origin of the Democratic-Republican Party.

The Joseph D. Weeks Prize, the gift of the late Joseph Dame Weeks, M. A., is awarded for the best essay on some specified subject in the department of economics. The subject for the essay of 1899 is The Decline of the American Merchant Marine. The essays must be left with the head of the department on or before the third Monday in May (May 15).

The Peirce Prize, the gift of Rev. Bradford K. Peirce, D. D., is awarded for excellence in natural science. It will be given in 1899 upon a special examination based on the course in biology marked I. in the present catalogue. The subject of the examination in 1900 will be geology; in 1901, chemistry.

The Phi Beta Kappa Prize is awarded for excellence in Latin. An outline of the work to be done in competition for this prize may be found in the November *Bulletin*.

The G. Brown Goode Prize, the gift of Mrs. G. Brown Goode, is awarded for the best original investigation in the department of natural history.

No person who has once taken either the Harrington, the Joseph D. Weeks, the Phi Beta Kappa, or the G. Brown Goode Prize, may compete for it again.

The Weeks Prize, the gift of the late Joseph Dame Weeks, M. A., is awarded for excellence in modern philosophy. It will be given in 1899 upon an examination in the courses in philosophy marked VII. and VIII. in the present catalogue, together with additional work to be assigned by the instructor.

A prize is awarded for excellence in Greek literature. It will be given in 1899 upon a special examination in the course in Greek marked XI. in the present catalogue.

The Camp Prize, the gift of Samuel T. Camp, Esq., is awarded for excellence in English literature. It will be given in 1899 upon a special examination in the course in English literature marked I. in the present catalogue.

The Johnston Prize, the gift of Rev. David G. Downey, M. A., in memory of Professor John Johnston, is awarded for excellence in electricity. It will be given in 1899 upon a special examination based on the course in physics marked VII. in the present catalogue.

The Spinney Prize, the gift of Mrs. Joseph Spinney, is awarded for excellence in Greek. It will be given in 1899 upon a special examination based in part upon the first half of the course in Greek marked II. in the present catalogue. A detailed statement may be found in the November *Bulletin*.

The Rice Prize, the gift of the late Rev. William Rice, D. D., is awarded for excellence in mathematics. It will be given in 1899 upon a special examination based upon the course in mathematics marked V. in the present catalogue.

Students who compete for either the Weeks, the Greek literature, the Camp, the Johnston, the Spinney, or the Rice Prize must do so during the year in which they regularly pursue the course or courses on which the examination for the prize is based.

The Wise Prize, the gift of Rev. Daniel Wise, D. D., is awarded to that member of the Senior class who excels in moral philosophy.

The Walkley Prize, the gift of Webster R. Walkley, M. A.,—*in memoriam* David Hart Walkley, graduated June, 1878; died September 16, 1878,—is awarded to that member of the Junior class who excels in psychology.

The Sherman Prize, the gift of Rev. David Sherman, D. D., is awarded this year to that member of the Freshman class who excels in Greek. The examination is based on the required course in Greek. A detailed statement may be found in the November *Bulletin*. The subject of the examination in 1900 will be mathematics; in 1901, Latin.

The Ayres Prize, the gift of Daniel Ayres, M. D., LL. D., is awarded to that member of the Freshman class who is found, upon special examination, to have attained the highest excellence in the studies preparatory to admission to the classical course.

The Rich Prize, the gift of Mrs. Isaac Rich, is awarded to that member of the Senior class whose oration at Commencement is deemed best in composition and delivery. Each oration must contain not more than twelve hundred words, and must be left with the Professor of English Literature on or before the second Tuesday (June 13) preceding Commencement week.

The Olin Prize, the gift of Mrs. Julia M. Olin, is awarded to that member of the Senior class who excels in English composition. The subject for the essay of 1899 is Alfred Tennyson. The subject for the essay of 1900 is James Russell Lowell as Man of Letters. Essays must be left with the Professor of English Literature on or before the first Monday of the third term (April 10).

Two prizes are awarded, as a first and second prize respectively, to the two members of the Junior class who present the best orations at the annual Junior Exhibition. In the award of these prizes, both the composition and the delivery of the orations are considered. The orations must be left with the Professor of the English Language on or before the first Saturday in the third term (April 8).

The Briggs Prize, the gift of James E. Briggs, Esq., is awarded to that member of the Junior class who excels in debate.

The Parker Prize, the gift of Rev. John Parker, for excellence in elocution, is awarded to the best speaker in the Junior and Sophomore classes.

A second prize is awarded, in the same classes, for excellence in elocution; but, in the competition for it, selections of a dramatic character, and from poetry, are excluded.

The Hibbard Prize, the gift of Professor Ralph G. Hibbard, M. A., is awarded to that member of the Freshman class who excels in declamation.

The Taylor Prize, the gift of Rev. George Lansing Taylor, D. D., is awarded to that student who presents the best English poem.

The poem must be left with the Professor of English Literature before the Senior examination.

The several Committees of Award will withhold any prize, if, in their judgment, none of the exercises presented in competition for it possess the requisite merit.

AWARD OF PRIZES, 1897-98.

The Harrington Prize, to GEORGE BUSH MACCOMBER. Honorable mention, SAMUEL ALFRED MOYLE.

Committee of Award:—Professor Wilbur C. Abbott, B. Litt., of the University of Michigan.

The Joseph D. Weeks Prize, to WARREN LANNING HOAGLAND, JR.

The Peirce Prize, to HENRY ANDREWS INGRAHAM.

Committee of Award:—Henry Clapp Sherman, Ph. D., of Middletown; Robert Stuart Norris, Ph. D., of the University of California.

The Phi Beta Kappa Prize, to HORACE DURAR BYRNES.

The Weeks Prize, to ARTHUR EVELYN YOUNG.

The Greek Archaeology Prize, to GEORGE LEROY NOYES and WILLIAM HENRY LESLIE.

The Camp Prize, to EDWARD MITCHELL SPENCER.

The Johnston Prize, to ADDIS BLISS ALBRO.

The Spinney Prize, to HARRY TORSEY BAKER. Honorable mention, HORACE DURAR BYRNES and ROBERT CECIL MCMAHON.

Committee of Award:—Frank Louis Van Cleef, Ph. D., of Brooklyn, N. Y.

The Rice Prize, to MAY TOMLINSON PALMER.

The Wise Prize, to EUGENE WYLLYS BURR.

The Walkley Prize, to FREDERICK LINCOLN FLINCHBAUGH.

The Sherman Prize, to WILLIAM HARRY CLEMONS.

The Rich Prize, to GEORGE BUSH MACCOMBER.

Committee of Award:—Rev. Wilbert Perry Ferguson, D. D., Principal of the Centenary Collegiate Institute, Hackettstown, N. J.; Professor Charles Albert Perkins, Ph. D., of the University of Tennessee; Rev. Frank Bruce Lynch, D. D., of Philadelphia, Pa.

The Olin Prize, to EUGENE WYLLYS BURR and GEORGE WILBUR OSMUN.

Committee of Award:—Professor Herbert Eveleth Greene, Ph. D., of Johns Hopkins University.

The First Junior Exhibition Prize, to JOSEPH BEECH.

Committee of Award:—Walter Bixby Ferguson, B. A., Superintendent of Schools, Middletown; Albert Marshall Hitchcock, M. A., of Hartford; Giles Alfred Stewart, M. A., Superintendent of Schools, New Britain.

The Second Junior Exhibition Prize, to WILBUR REED MATTOON.

Committee of Award:—Same as for the First Junior Exhibition Prize.

The Briggs Prize, to CHARLES ARTHUR HADLEY.

Committee of Award:—David Wilder Colby, B. S., of Portsmouth, N. H., with members of the Faculty.

The Parker Prize, to ALBERT ERNEST LEGG. Honorable mention, CHARLES HARRISON DAVIS.

Committee of Award:—Hon. Owen Vincent Coffin, LL. D., of Middletown; Rev. Charles Henry Buck, D. D., of Bristol; Daniel Anson Markham, Ph. B., of Hartford.

The Second Prize in Elocution, to HORACE DURAR BYRNES.

Committee of Award:—Same as for the Parker Prize.

The Hibbard Prize, to ROY HUMISTON JONES.

Committee of Award:—Same as for the Parker Prize.

The Ayres Prize, for the current year, to EVERETT LYNN THORNDIKE, prepared at the Lynn High School, Mass.

APPOINTMENTS FOR JUNIOR EXHIBITION AND COMMENCEMENT.

The speakers at the Junior Exhibition are selected according to their grade in composition and declamation subsequent to the Freshman year. The speakers at Commencement are selected according to their grade in composition and declamation subsequent to the Sophomore

year. The number of speakers at each of these public exercises is limited to eight. The speakers last year were:—

JUNIOR EXHIBITION,

JOSEPH BEECH,	CHARLES ARTHUR HADLEY,
ARTHUR FREDERICK GOODRICH,	WILBUR REED MATTOON,
FREDERICK LINCOLN FLINCHBAUGH.	

COMMENCEMENT,

GEORGE EDWARD ANDREWS,	GEORGE BUSH MACCOMBER,
ALLING PRUDDEN BEARDSLEY,	ADOLPHUS STEWART NORTH,
HATTIE BERNICE HALL,	GEORGE WILBUR OSMUN,
WARREN LANNING HOAGLAND, JR.,	BENJAMIN ERNEST SIBLEY.

HONORS IN SCHOLARSHIP.

I. HONORS IN GENERAL SCHOLARSHIP.—Two grades of honor, designated respectively as honors and high honors, are conferred at graduation, based upon the general scholarship of the student throughout his whole course.

An honor in general scholarship is awarded to a student who has received a grade not below third on an aggregate of not less than 63 hours' work, as reckoned in the record of standings, has received first grade on a number of hours' work not less than the part of the 63 hours' work on which he has received third grade, and has not fallen below fourth grade on any study of the course.

A high honor in general scholarship is awarded to a student who has received a grade not below second on an aggregate of not less than 63 hours' work, has received first grade on an aggregate of not less than 50 hours' work, and has not fallen below third grade on any study of the course.

II. PRELIMINARY HONORS.—Preliminary honors are awarded in the departments of classics and mathematics at the end of the Sophomore or of the Junior year, and no student can receive special honors at graduation in Greek, Latin, or mathematics, who has not previously received the corresponding preliminary honors. Notice of candidacy for preliminary honors must be given to the senior officer of the department, and to the Secretary of the Faculty, as early as the first Monday of the third term of the year in which the candidate proposes to present himself for the special examination (April 10).

The case of each candidate is decided by the Faculty. The special regulations concerning the award of preliminary honors are as follows:—

Classics.—1. The candidate must not fall below third grade, and must maintain an average standing of second grade, in the following courses:—I., II., and III. Greek, and in Latin I., VI., and any two of the Courses II.–V.

2. He must also pass with distinction a special examination, held near the end of the academic year, and designed to test (*a*) his ability to translate Greek and Latin into English at sight, and (*b*) his knowledge of Greek and Latin grammar, and of Greek and Roman antiquities, mythology, and political and literary history.

Mathematics.—1. The candidate must not fall below third grade, and must maintain an average standing of second grade in the required course in mathematics, and in such elective courses, amounting to not less than five hours a week, as may be approved by the head of the department. Courses II. and V. are recommended.

2. He must pass with distinction a special examination, held near the end of the academic year, which may cover the entire field of his mathematical knowledge.

III. HONORS IN SPECIAL DEPARTMENTS AT GRADUATION.—Two grades of special honor, designated respectively as honors and high honors, are awarded at graduation in each of the following departments:—

Latin; Greek; German; Romance Languages; English; History; Economics and Social Science; Philosophy; Mathematics; Physics; Chemistry; Geology; Biology.

The conditions upon which special honors in these departments are awarded are as follows:—

(1) The candidate must apply to the officer in charge of the department in which he proposes to take honors, and to the Secretary of the Faculty, not later than the first Monday of the third term in the Junior year (April 10).

(2) He must pass at the regular or special examinations in such studies of the college course as are prescribed for honors in the several departments in the schedule given below; and in such studies he must not fall below third grade, and must maintain an average standing of second grade after the beginning of the Sophomore year, or must receive first grade in all of the prescribed studies which he takes after the beginning of his Junior year.

(3) In addition to the studies regularly prescribed in the schedule below, the candidate must pursue such a course of collateral reading or investigation as is prescribed by the officer in charge of the department, with the approval of a committee of the Faculty. The evidence of his proficiency in this collateral course is given by an examination, oral or written, by a thesis or essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as may be prescribed by the officer of the department, with the approval of a committee of the Faculty. The case of each candidate is decided by the Faculty.

(4) In addition to other requirements, every candidate for special honors is required to pass a *general examination* covering the entire field of his knowledge in the department in which the honor is given. This examination is oral, and is conducted in the presence of a committee of the Faculty.

(5) No student is awarded special honors who fails to pass in any study of the last two years of the course.

(6) No examination for special honors is given, and no thesis or other work in preparation for special honors is received, after the second Saturday (June 17) preceding Commencement.

The conditions upon which high special honors are awarded are the same as for special honors, with the addition of the following requirements:—

The candidate must receive first grade in all of the prescribed studies which he takes after the beginning of his Sophomore year; and his examinations and other tests must show an exceptionally clear and comprehensive understanding of the studies of the department, and give promise of capacity for independent work.

The following schedule gives the studies required of candidates for special honors in the several departments:—

Latin.—1. So many of the courses in Latin as will amount in the aggregate to not less than twenty hours a week.

2. Courses I. and II. in Greek.

[Candidates for special honors in Latin at graduation are requested to announce their candidacy as early as the beginning of the Junior year.]

Greek.—1. Courses I.-VII., and either Course X. or Course XI. in Greek.

2. Course I., and any two of Courses II.-V. in Latin.

German.—1. Courses I.–VII. in German.

2. Courses I. and II. in French.

3. Course I. in English Literature, or Course IV. in English Language.

Romance Languages.—1. Courses I.–IV. in French, and the elementary course in Italian.

2. Courses I. and II. in German.

English.—1. The required courses in English, including composition.

2. One of the following groups of elective courses:—

(a.) Courses IV. and VI. in English Language, and Courses I., IV., and either II. or III. in English Literature.

(b.) Courses IV. and VI. in English Language, Course I. in English Literature, and Courses I. and II. in German.

(c.) Courses I., IV., and either II. or III. in English Literature, Course IV. in English Language, and Courses II. and III. in History.

(d.) Courses I., IV., and either II. or III. in English Literature, Courses II. and III. in History, and any three of the courses in German, French, or Italian.

History.—1. All the courses in History.

2. The required course, and one elective course, in Economics and Social Science.

Economics and Social Science.—1. All the courses in Economics and Social Science.

2. Courses I., II., III., VII., and VIII. in History.

Philosophy.—1. All the courses in Philosophy.

2. The course in Ethics.

3. The course in Theism, or Course I. in Biology.

Mathematics.—1. The required course in Mathematics.

2. Elective courses in Mathematics and Astronomy, amounting in the aggregate to not less than fifteen hours a week.

3. Course I. in Physics.

[Prospective candidates for special honors in Mathematics at graduation are advised to take Course V. in Mathematics in the Sophomore year.]

Physics.—1. Course I. in Physics.

2. Two years of Practical Physics (in at least one of which there shall be three exercises a week).

3. Not less than three of the following courses:—V., VI., VII., X., XI. Physics, and XII. Mathematics.

4. Course I. in Chemistry.

5. Either Course III. in Chemistry or Course V. in Mathematics.

Chemistry.—1. Courses I.–V. and IX., in Chemistry (three exercises a week being required in Course III.).

2. Course I. in Physics, and one year of Practical Physics; or Course VI. in Chemistry, and Courses I. and V. in Biology.

Geology.—1. Courses I.–VI. in Geology.

2. The elementary course in Astronomy.

3. Courses III. and IV. in Biology.

4. Not less than two of the following courses:—V. and VI. Biology, III. and IV. Chemistry, and VI. Physics.

Biology.—1. Courses I.–VI. in Biology.

2. Courses I. and IV. in Geology.

3. Course III. in Chemistry.

[Candidates for special honors in Biology are recommended to take at least one summer course in the Marine Laboratory at Cold Spring Harbor.]

In all cases in which the foregoing schedule allows option between two or more courses or groups of courses, the student's selection is subject to the approval of the head of the department in which he proposes to take honors.

In special cases a candidate for honors may be allowed to substitute other courses for those named in the foregoing schedule, by vote of the Faculty, on recommendation of the head of the department.

An honor of any of the kinds and grades mentioned may be conferred on a student sufficiently meritorious, by vote of the Faculty, even though his record of standing does not completely fulfill the requirements stated above.

The names of those students who take preliminary honors are announced on the Monday preceding Commencement (June 26).

The names of students who take honors at graduation, whether general or special, are printed on the Commencement program.

AWARD OF HONORS, 1897-98.

HONORS IN GENERAL SCHOLARSHIP.

HIGH HONORS.

ALLING PRUDDEN BEARDSLEY,	HATTIE BERNICE HALL,
MARGARET WILBER GAINES,	GEORGE LEROY NOYES,
ELIZABETH THOMPSON.	

HONORS.

EUGENE WYLLYS BURR,	GEORGE WILBUR OSMUN,
ALFRED TREDWELL DAVISON,	SUSIE HADLEY POTTER,
WARREN LANNING HOAGLAND, JR.,	ARTHUR WELLINGTON PRICE,
FREDERICK ATKINS JOHNSTON,	BENJAMIN ERNEST SIBLEY,
GEORGE BUSH MACCOMBER,	ADDIE FRANCES SWEET,
ROBERTA MASON,	GILBERT HAVEN TRAFTON,
ADOLPHUS STEWART NORTH,	ARCHER EVERETT YOUNG,
PATRICK FRANCIS O'NEILL,	ARTHUR EVELYN YOUNG.

HONORS IN SPECIAL DEPARTMENTS.

HONORS.

German.

GEORGE LEROY NOYES. The History of German Literature.
Thesis: "The Influence of Goethe's Wilhelm Meister on the German Novel."

Philosophy.

ARTHUR EVELYN YOUNG. Studies in Experimental Psychology.
Thesis: "The Psychology of Vision."

Chemistry.

FREDERICK ATKINS JOHNSTON. Inorganic Chemistry. Thesis: "A Sodium Nickel Tartrate."

ROLAND HENRY WILLIAMS. Organic Chemistry. Thesis: "Some Derivatives of Methyl p-Cresyl Ether."

PRELIMINARY HONORS.

*Mathematics.**Juniors.*

NORRIS CALEB BAILEY,
JAMES GARDNER GOODWIN,
FRED WOODING HUTCHINSON.

Sophomores.

JAMES MELVIN LEE,
MAY TOMLINSON PALMER,
CLARENCE HATHORNE STAPLES.

*Classics.**Sophomores.*

HORACE DURAR BYRNES,

LEROY CONNELL FLOYD, JR.



DEGREES.

The following degrees are conferred by the University, in course:—

BACHELOR OF ARTS.—This degree is conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Classical Course.

BACHELOR OF PHILOSOPHY.—This degree is conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Latin-Scientific Course.

BACHELOR OF SCIENCE.—This degree is conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Scientific Course.

The baccalaureate degree is awarded *summa cum laude* to a student who takes high honors both in general scholarship and in one or more departments; *magna cum laude*, to a student who takes a high honor either in general scholarship or in one or more departments; *cum laude*, to a student who takes an honor either in general scholarship or in one or more departments.

MASTER OF ARTS AND MASTER OF SCIENCE.—The degrees of Master of Arts and Master of Science are conferred in accordance with the following regulations:—

1. The degree of Master of Arts is conferred upon Bachelors of Arts of Wesleyan University, of at least one year's standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued in residence for a period of not less than one year. This course of study is under the full direction of a Committee of the Faculty on Graduate Instruction, composed of three permanent members with the addition of the instructor in charge of each department in which the candidate pursues work. Evidence of the candidate's proficiency in the approved studies is given by an examination, oral or written, by a thesis or an essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these

methods combined, as the Committee may prescribe. All such tests of proficiency are under the direction of the Committee, and they report to the Faculty proper candidates for the degree.

2. In the case of Bachelors of Arts of other colleges whose course of study is accepted as sufficient by the Committee on Graduate Instruction, or who pass such additional examinations as the Committee prescribes, the degree of Master of Arts is conferred on the conditions prescribed in the case of Bachelors of Arts of Wesleyan University pursuing a course of study in residence.

3. The degree of Master of Arts is also conferred upon Bachelors of Arts of Wesleyan University, of at least three years' standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued *in absentia*, and equivalent in amount to that prescribed in the case of resident graduate students; and in all other particulars the same regulations hold in the case of non-residents as in the case of resident students. The degree is also conferred upon Bachelors of Arts of Wesleyan University, of two years' standing, at the satisfactory conclusion of a course of study pursued *in absentia*, on the conditions above specified, provided that the candidate has spent the two years in resident study in a non-professional department of some other university.

4. The degree of Master of Science is conferred upon Bachelors of Philosophy and Bachelors of Science, whether of this or of other colleges, under the same conditions which govern in the case of the degree of Master of Arts.

5. A fee of ten dollars is required from each graduate student upon promotion to the Master's degree.

Communications from prospective graduate students regarding the Master's degree should be addressed, in the first instance, to Professor Kuhns, the secretary of the Committee on Graduate Instruction.



DEGREES CONFERRED, JUNE, 1898.

DEGREES IN COURSE.

THE DEGREE OF B. A. WAS CONFERRED ON

BENJAMIN FRANCIS ANDREWS,	HAROLD DENMAN MEEKER,
GEORGE EDWARD ANDREWS,	SAMUEL ALFRED MOYLE,
BERNARD GIFFIN BARTON,	ADOLPHUS STEWART NORTH,
ALLING PRUDDEN BEARDSLEY,	GEORGE LEROY NOYES,
FRED INNES BROWN,	HANNAH PEMBROKE O'FLAHERTY,
EUGENE WYLLYS BURR,	PATRICK FRANCIS O'NEILL,
ALFRED TREDWELL DAVISON,	ROBERT EDWARD PLATT,
JOHN HOWARD FAIRCHILD,	ARTHUR WELLINGTON PRICE,
MARGARET WILBER GAINES,	SAMUEL QUICKMIRE,
GEORGE GILMOUR,	JOHN KEAVELEY,
HATTIE BERNICE HALL,	GEORGE DOUGLAS ROBINS,
HAROLD HASTINGS,	BENJAMIN ERNEST SIBLEY,
HERBERT HAZZARD,	WALTER HERBERT STEVENS,
WARREN LANNING HOAGLAND, JR.,	ADDIE FRANCES SWEET,
ROBERT TOLLES JONES,	ELIZABETH THOMPSON,
CHESTER CHAFFEE KENT,	FREEMAN AUGUSTUS TOWER,
ELLIS RICHARD LEWIS,	ELEANOR BELLE YATES,
GEORGE BUSH MACCOMBER,	ARCHER EVERETT YOUNG,
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Thesis: The Testimony of Latin Literature to the Topography of Rome.

EDMUND DAVID SEARLS, B. A., 1896. Subject: Physics. Thesis:
On the Discharge of Electricity through Gases.

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Thesis: On the Relation of Weight to Supporting Surfaces
in Certain Birds.

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ALUMNI RECORD.—Through the liberality of Orange Judd, M. A., a Biographical Record of the alumni of the University was published in 1869. A third edition of this Record, revised and corrected, was issued in June, 1883.

This edition contains not only the record of alumni, revised and corrected to the date of publication, but also a list of all former students not graduates, with their residences, and such other information with reference to them as the most thorough search could obtain. It also includes a Bibliographical Record, showing all the more important literary and scientific work done by alumni and members of the Faculty. Copies of this edition may be had on application to the librarian, W. J. James. The price of the Record when sent by mail is one dollar.

A third edition of the Supplement to the Alumni Record, containing an alphabetical list of the living graduates, with their honorary and professional degrees, their occupations, and their addresses, was published in August, 1897.

Information in regard to changes of address of alumni or in regard to any other facts suitable for future editions of the Record, is earnestly solicited. All who can furnish such information are requested to communicate with Professor F. W. Nicolson.

NECROLOGY.—A list of deceased graduates of the University is published annually in the *Bulletin*. All persons who can supply information appropriate to future lists, are urgently requested to communicate the same to Professor F. W. Nicolson.

EMPLOYMENT BUREAU.—An employment bureau has been established in the office of the Secretary of the Faculty, for the purpose of securing positions as teachers for graduates of the college, and to provide opportunities for undergraduates to earn money towards paying their college expenses, by work in Middletown during term time, or in Middletown or elsewhere during the summer vacation. Those who wish to avail themselves of the opportunity thus offered are invited to register; and the alumni and friends of the college are urgently requested to inform the Secretary of any vacancy coming to their notice which might be filled by a Wesleyan student or graduate. No fees are charged.

CALENDAR.

1898.

- Sept. 29, Thursday—First Term began.
 Nov. 23-27, Thanksgiving Recess.
 Dec. 23, Friday—First Term will close.

1899.

CHRISTMAS RECESS.

- Jan. 4, Wednesday—Second Term will begin.
 Jan. 26, Thursday—Day of Prayer for Colleges,—a holiday.
 Feb. 6-18, Mid-year Examinations.
 Feb. 22, Wednesday—Washington's Birthday,—a holiday.
 March 29, Wednesday—Second Term will close.

SPRING RECESS.

- April 4, Tuesday—Third Term will begin.
 April 8, Saturday—Last day for presenting Junior Exhibition Essays.
 April 10, Monday—Last day for presenting Olin Prize Essays.
 April 10, Monday—Last day for presenting applications for Preliminary and Special Honors.
 April 20, Thursday—Junior Exhibition.
 May 15, Monday—Last day for presenting Joseph D. Weeks Prize Essays.
 May 30, Tuesday—Memorial Day,—a holiday.
 June 1, Thursday—Prize Debate.
 June 5, Monday—Senior Examination will begin.
 June 12, Monday—Annual Examination will begin.
 June 13, Tuesday—Last day for presenting Rich Prize Essays.
 June 17, Saturday—Last day for receiving Special Honor Theses, and for Special Honor Examinations.
 June 23, Friday—Prize Declamations.
 June 25, Sunday morning—Baccalaureate Sermon.
 June 25, Sunday evening—University Sermon.
 June 26, Monday morning—Announcement of Award of Prizes.
 June 26, Monday afternoon—Class Day.
 June 26, Monday evening—Meeting of the Board of Trustees.

1899.

- June 27, Tuesday morning—Business meeting of the Phi Beta Kappa Society.
- June 27, Tuesday morning—Business Meeting of the Alumni Association.
- June 27, Tuesday afternoon—Reunion of Classes of 1849, '74, '84, '89, '92, '96.
- June 27, Tuesday afternoon—Social Receptions by the College Fraternities.
- June 28, Wednesday—COMMENCEMENT.
- June 29, Thursday—Examination of candidates for admission will begin.

VACATION OF THIRTEEN WEEKS.

- Sept. 26, Tuesday—Special Examination for students deficient at Annual Examination.
- Sept. 27, Wednesday—Examination of candidates for admission will begin.
- Sept. 28, Thursday—First Term will begin.



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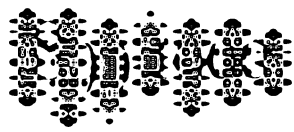
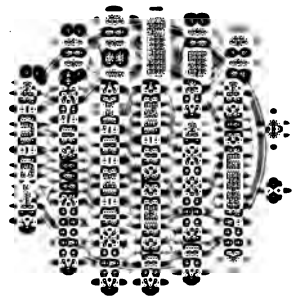
CALENDAR, 1899

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M	2 9 16 23 30	M	1 8 15 22 29	M	- 4 11 18 25	M	1 8 15 22 29
T	3 10 17 24 31	T	2 9 16 23 30	T	- 5 12 19 26	T	2 9 16 23 30
W	4 11 18 25 X	W	3 10 17 24 31	W	- 6 13 20 27	W	3 10 17 24 31
T	5 12 19 26 X	T	4 11 18 25 X	T	- 7 14 21 28	T	4 11 18 25 X
F	6 13 20 27 X	F	5 12 19 26 X	F	1 8 15 22 29	F	5 12 19 26 X
S	7 14 21 28 X	S	6 13 20 27 X	S	2 9 16 23 30	S	6 13 20 27 X
FEBRUARY		JUNE		OCTOBER		FEBRUARY	
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M	- 6 13 20 27	M	- 5 12 19 26	M	2 9 16 23 30	M	- 5 12 19 26
T	- 7 14 21 28	T	- 6 13 20 27	T	3 10 17 24 31	T	- 6 13 20 27
W	1 8 15 22 X	W	- 7 14 21 28	W	4 11 18 25 X	W	- 7 14 21 28
T	2 9 16 23 X	T	1 8 15 22 29	T	5 12 19 26 X	T	1 8 15 22 X
F	3 10 17 24 X	F	2 9 16 23 30	F	6 13 20 27 X	F	2 9 16 23 X
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MARCH		JULY		NOVEMBER		MARCH	
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M	- 6 13 20 27	M	- 3 10 17 24 31	M	- 6 13 20 27	M	- 5 12 19 26
T	- 7 14 21 28	T	- 4 11 18 25 X	T	- 7 14 21 28	T	- 6 13 20 27
W	1 8 15 22 29	W	- 5 12 19 26 X	W	1 8 15 22 29	W	- 7 14 21 28
T	2 9 16 23 30	T	- 6 13 20 27 X	T	2 9 16 23 30	T	1 8 15 22 29
F	3 10 17 24 31	F	- 7 14 21 28 X	F	3 10 17 24 X	F	2 9 16 23 30
S	4 11 18 25 X	S	- 18 15 22 29 X	S	4 11 18 25 X	S	3 10 17 24 31
APRIL		AUGUST		DECEMBER		APRIL	
S	- 2 9 16 23 30	S	- 6 13 20 27	S	- 3 10 17 24 31	S	1 8 15 22 29
M	- 3 10 17 24 X	M	- 7 14 21 28	M	- 4 11 18 25 X	M	2 9 16 23 30
T	- 4 11 18 25 X	T	1 8 15 22 29	T	5 12 19 26 X	T	3 10 17 24 X
W	- 5 12 19 26 X	W	2 9 16 23 30	W	- 6 13 20 27 X	W	4 11 18 25 X
T	- 6 13 20 27 X	T	3 10 17 24 31	T	- 7 14 21 28 X	T	5 12 19 26 X
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1899-1900



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§ James Marshall Dearborn,	<i>Middletown.</i>	Pine St.
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§ George Dickey Mills,	<i>Helena, Mont.</i>	<i>Φ. P. House.</i>
† Thomas Henry Montgomery,	<i>S. Manchester.</i>	<i>58 N. C.</i>
James Wiswell Mudge,	<i>Natick, Mass.</i>	<i>43 N. C.</i>
Fannie Myerson,	<i>New Britain.</i>	<i>274 High St.</i>
Carl Samuel Neumann,	<i>New Britain.</i>	<i>13 N. C.</i>
Robert Brewer Newell,	<i>Hartford.</i>	<i>B. Θ. Π. House.</i>
§ Clarence Lucian Newton,	<i>Walden, Vt.</i>	<i>B. Θ. Π. House.</i>
Wilber Edward Newton,	<i>Walden, Vt.</i>	<i>B. Θ. Π. House.</i>
Elizabeth Parkhurst Peck,	<i>E. Haddam.</i>	<i>238 High St.</i>
† Clarence Albert Pierce,	<i>Roxbury.</i>	<i>15 N. C.</i>
† Moses Kellum Pike,	<i>Salisbury, Mass.</i>	<i>103 Lawn Ave.</i>
Harrie Albert Pratt,	<i>Essex.</i>	<i>13 N. C.</i>
Carl Fowler Price,	<i>Yonkers, N. Y.</i>	<i>Ψ. Y. House.</i>
Ernestine Rose,	<i>Bridge Hampton, N. Y.</i>	<i>274 High St.</i>

NAMES.	RESIDENCES.	ROOMS.
George D Ryder,	<i>Cobleskill, N. Y.</i>	X. ♀. Lodge.
Arthur Jay Scofield,	<i>Brooklyn, N. Y.</i>	8 N. C.
Irving Frank Scofield,	<i>Brooklyn, N. Y.</i>	8 N. C.
Norman Keator Silliman,	<i>Hobart, N. Y.</i>	Φ. P. House.
Hubert Nelson Terrell,	<i>E. Quogue, N. Y.</i>	Gymnasium.
James Voorhees Thompson,	<i>Buffalo Run, Pa.</i>	12 N. C.
Everett Lynn Thorndike,	<i>Lynn, Mass.</i>	178 Church St.
Oliver Rawson Underhill,	<i>Ipswich, Mass.</i>	Φ. P. House.
§ Fanny Terry Van Scoy,	<i>Middletown.</i>	270 William St.
† May Talmage Van Scoy,	<i>Middletown.</i>	270 William St.
John Carroll Wallace,	<i>New York, N. Y.</i>	Φ. P. House.
§ William Bryse Walter,	<i>Pittston, Pa.</i>	X. ♀. Lodge.
Henry Gordon Wells,	<i>Middletown.</i>	103 Lawn Ave.
§ Elmer Schall Welsh,	<i>York, Pa.</i>	Φ. P. House.
§ David Gifford Willets,	<i>Camden, N. J.</i>	A. Δ. Φ. House.
Jessie Marion Winans,	<i>Middletown.</i>	Pine St.
Frederick Amos Woodworth,	<i>Braintree, Mass.</i>	4 N. C.

FRESHMAN CLASS.

NAMES.	RESIDENCES.	ROOMS.
Arlon Taylor Adams,	<i>E. Hampton.</i>	19 Cross St.
§ George Thurston Ames,	<i>Binghamton, N. Y.</i>	49 N. C.
Irving Monroe Anderson,	<i>Mt. Vernon, N. Y.</i>	59 N. C.
Olaf John Anderson,	<i>Stonington, Me.</i>	6 N. C.
† Cassius Murdock Austin,	<i>Georgia, Vt.</i>	35 N. C.
James Guy Bagg,	<i>Brattleboro, Vt.</i>	64 N. C.
Mary Elizabeth Bagg,	<i>Brattleboro, Vt.</i>	274 High St.
Frank Milton Baker,	<i>Leominster, Mass.</i>	50 N. C.
§ James Herbert Baker,	<i>Concord, N. H.</i>	37 N. C.
Burton John Baldwin,	<i>Woodbridge.</i>	Δ. K. E. House.
Charles Prescott Barker,	<i>Albany, N. Y.</i>	250 High St.

NAMES.	RESIDENCES.	ROOMS.
§ Robert Allen Bartlett,	<i>Somers.</i>	44 N. C.
Ziba Platt Bennett,	<i>Wilkes-Barre, Pa.</i>	53 N. C.
§ James Garfield Berrien,	<i>Montclair, N. J.</i>	18 N. C.
Marshall Bevin,	<i>E. Hampton.</i>	246 High St.
† Thomas Percival Beyer,	<i>Ramey, Pa.</i>	58 Wyllys Ave.
Fred Harvey Bolster,	<i>Oppenheim, N. Y.</i>	Foss House.
§ William Preston Bray,	<i>E. Bangor, Pa.</i>	63 N. C.
Robert Everson Briggs,	<i>New Bedford, Mass.</i>	Foss House.
† Leverett Dale Bristol,	<i>Washington, D. C.</i>	49 N. C.
Walter Creighton Brown,	<i>Wellesley Hills, Mass.</i>	34 N. C.
Harry Winter Bugbee,	<i>Monson, Mass.</i>	X ♡ Lodge.
Otto Asbury Bushnell,	<i>Waitsfield, Vt.</i>	61 N. C.
† William Patterson Calder,	<i>Hartford.</i>	34 N. C.
† Paul French Canfield,	<i>Norfolk.</i>	88 Wyllys Ave.
Erwin Edmund Carpenter,	<i>E. Douglas, Mass.</i>	51 Wyllys Ave.
§ James Nathaniel Carter,	<i>W. Pembroke, Me.</i>	6 N. C.
§ Olin Mason Caward,	<i>Prattsburg, N. Y.</i>	58 Wyllys Ave.
§ Arthur William Chapman,	<i>Whitehall, N. Y.</i>	38 N. C.
† Frederick Edson Clark,	<i>Newark, N. J.</i>	48 N. C.
Frederick Owen Collins,	<i>St. Albans, Vt.</i>	16 N. C.
Clarence Fletcher Corner,	<i>Brooklyn, N. Y.</i>	50 N. C.
† Andrew Payne Cornwall,	<i>Portland.</i>	X ♡ Lodge.
† Howard Dickinson Crane,	<i>Newark, N. J.</i>	48 N. C.
Carl Custer Cutler,	<i>Brooklyn, N. Y.</i>	4 N. C.
§ Zelia Almira Cutler,	<i>W. Acton, Mass.</i>	78 Laron Ave.
† Milton Webster Davenport,	<i>Middletown.</i>	48 Wyllys Ave.
Harry Pierson Day,	<i>Morristown, N. J.</i>	55 N. C.
Henry de Wolf de Mauriac,	<i>Middletown.</i>	265 Court St.
Edwin Ditchett,	<i>Bangor, Pa.</i>	63 N. C.
† Ira Chapman Doane,	<i>New Haven.</i>	186 College St.
Ridgway Bowers Espy,	<i>Wilkes-Barre, Pa.</i>	60 N. C.
Clifton Foss Gardner,	<i>Moodus.</i>	62 N. C.
§ Rena Cecilia Gladding,	<i>Middletown.</i>	102 Church St.
§ Vivian Elaine Gladwin,	<i>Middletown.</i>	271 Washington St.
† Arthur Sheldon Grant,	<i>Wapping.</i>	62 N. C.
† Alfred Augustine Gustafson,	<i>Middletown.</i>	88 Wyllys Ave.
† Clarence Frederic Hale,	<i>S. Manchester.</i>	Foss House.
§ George Wilber Hartwell,	<i>Rochelle Park, N. J.</i>	246 High St.

NAMES.	RESIDENCES.	ROOMS.
§ Robert Culver Hartzell,	<i>New York, N. Y.</i>	58 N. C.
Vernon Eugene Hastings,	<i>N. Adams, Mass.</i>	52 N. C.
† John Fletcher Hatch,	<i>St. Albans, Vt.</i>	41 N. C.
§ Andy Percy Havey,	<i>W. Sullivan, Me.</i>	38 N. C.
Faith Eleanor Hills,	<i>E. Hampton.</i>	274 High St.
Perry Sherman Howe,	<i>Chicopee Falls, Mass.</i>	45 N. C.
† Max Franklyn Howland,	<i>New Bedford, Mass.</i>	37 N. C.
Arthur Grant Hume,	<i>Hobart, N. Y.</i>	Φ. P. House.
§ William Stillwell Jackson,	<i>Brooklyn, N. Y.</i>	250 High St.
§ William Nivinson Jennings, Jr.,	<i>New York, N. Y.</i>	31 N. C.
† Natt Madison Johnson,	<i>Albany, Vt.</i>	52 N. C.
Omar Edgar Jones,	<i>Ingleside, Md.</i>	Foss House.
Herbert Van Devanter Lacey,	<i>Cheyenne, Wyo.</i>	68 Pearl St.
John Wesley Langdale,	<i>Saltsburg, Pa.</i>	Foss House.
Ralph Clinton Lathrop,	<i>Bridgeport.</i>	47 N. C.
Floyd Swallow Leach,	<i>Chinchilla, Pa.</i>	99 Church St.
Jacob Kimber Levan,	<i>Newlin, Pa.</i>	58 Wyllys Ave.
§ Robert Rathbun Lewis,	<i>Coudersport, Pa.</i>	39 N. C.
§ Walter Ricks Littell,	<i>Oxford, N. Y.</i>	X. Φ. Lodge.
Harry Wilber Little,	<i>Loysburg, Pa.</i>	19 N. C.
Archibald Campbell McKillop,	<i>St. Albans, Vt.</i>	16 N. C.
William Edwards Hulbert Mathison,	<i>Springfield, Mass.</i>	44 N. C.
James Irving Merritt,	<i>Saratoga Springs, N. Y.</i>	Foss House.
§ Mary Louise Miles,	<i>New Britain.</i>	238 High St.
† William Rogers Morris,	<i>Epping, N. H.</i>	103 Lawn Ave.
§ Carl Stephen Mueller,	<i>Middletown.</i>	86 High St.
Ralph Norton,	<i>Jamaica, N. Y.</i>	17 N. C.
† Lucius Loren Palmer,	<i>Malone, N. Y.</i>	39 N. C.
§ Jesse Lyndon Parker,	<i>Danversport, Mass.</i>	17 N. C.
Fletcher Hurst Parsons,	<i>Paterson, N. J.</i>	51 Wyllys Ave.
§ Leland Stanley Pierson,	<i>Wilkes-Barre, Pa.</i>	X. Φ. Lodge.
§ Martin Prucha,	<i>Cleveland, O.</i>	Foss House.
§ Minnie Clara Rigby,	<i>Middletown.</i>	12 Pearl St.
Robert Henry Rippere,	<i>Patchogue, N. Y.</i>	X. Φ. Lodge.
Wilbur John Robinson,	<i>Portland.</i>	Portland.
† Wallace Leveritt Root,	<i>Cromwell.</i>	256 High St.
† John Tanner Russell,	<i>N. Granville, N. Y.</i>	61 N. C.
§ Stetson Kilbourne Ryan,	<i>Middletown.</i>	241 Court St.

NAMES.	RESIDENCES.	ROOMS.
§ Ethel Ray Sawyer,	<i>S. Meriden.</i>	<i>274 High St.</i>
Herbert Bronson Shonk,	<i>Plymouth, Pa.</i>	60 N. C.
Harry Huntington Smith,	<i>Brattleboro, Vt.</i>	64 N. C.
Robinson Spencer,	<i>Philadelphia, Pa.</i>	55 N. C.
§ Lloyd Percy Stevens,	<i>York, Pa.</i>	32 N. C.
† Arthur Crawford Stoney,	<i>Mt. Vernon, N. Y.</i>	41 N. C.
Frank Vanhaag Stutsman,	<i>Harrisburg, Pa.</i>	<i>58 Wyllys Ave.</i>
§ John Christie Ware,	<i>Montvale, N. J.</i>	<i>246 High St.</i>
§ George Marvin Warner,	<i>E. Berlin.</i>	<i>Foss House.</i>
William Hoyt Weber,	<i>Stamford.</i>	<i>288 College St.</i>
† Winford Oliver Wilder,	<i>St. Albans, Vt.</i>	31 N. C.
Ernest Wrigley Woodruff,	<i>Waterbury.</i>	45 N. C.

SPECIAL STUDENTS.

NAMES.	RESIDENCES.	ROOMS.
Louis Nicholas Blank,	<i>Newark, N. J.</i>	<i>19 Cross St.</i>
David Adelbert Cutler,	<i>W. Acton, Mass.</i>	<i>78 Lawn Ave.</i>
Hale Powers,	<i>Middletown, O.</i>	<i>B. O. II. House.</i>
Alice Jennette Raymond,	<i>Middletown.</i>	<i>311 High St.</i>



GENERAL STATEMENT.

COURSES OF STUDY.—The College presents to its undergraduate students the option of three parallel courses of study, each extending through four years, named respectively the Classical Course, the Latin-Scientific Course, and the Scientific Course.

In the Classical Course, the study of Latin and Greek forms a large part of the required work of the first year. In the Latin-Scientific Course, Greek is omitted, and, in the Scientific Course, both Greek and Latin are omitted, in order to give more extended opportunity for the study of modern languages, science, and literature.

REQUIRED AND ELECTIVE STUDIES.—In each of the foregoing courses, nearly all the studies of the first year are required. In the three remaining years, the amount of required work is progressively diminished, the student being allowed to complete his quota by selecting from a wide range of elective studies. He is expected, however, to regulate his choice so that his electives will together form an harmonious and symmetrical course of study; and in no case is a student allowed to select a study which he is not, in the judgment of his instructors, qualified to pursue with advantage.

SPECIAL COURSES.—Students who do not desire to complete any one of the foregoing courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood that this provision is intended for the benefit, not of those students who are incompetent to take one of the regular courses, but of those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended courses of study in particular departments. Such special students

will be expected to attend all exercises assigned them, and will be subject to all the general rules of the college.

GRADUATE STUDIES.—Extended instruction is given to those who wish to pursue graduate courses of study in any of the departments. Further information concerning such graduate courses is given in the reports of the several departments on Courses of Instruction, and also in connection with the statement of conditions for the degrees of Master of Arts and Master of Science.



TERMS OF ADMISSION.

CLASSICAL COURSE.*

Candidates for admission to the Classical Course are examined in the following subjects:—

LATIN.—1. Latin grammar, including prosody.

2. Caesar,—Gallic War, books I.–IV.

3. Cicero,—the four orations against Catiline, and those for Archias and for the Manilian Law.

4. Vergil,—Eclogues, and *Æneid*, books I.–VI.

5. Translation at sight into English of passages of Latin, both prose and poetry, of average difficulty.

6. Translation into Latin of simple English sentences and of easy narrative passages based on the prose authors read.

With the passages set under headings 5 and 6, a vocabulary of the less common words is supplied.

In place of the requirements specified under headings 2, 3, and 4, equivalent readings will be accepted, but, in general, prose will not be accepted instead of poetry, nor *vice versa*.

The Roman system of pronunciation is exclusively used in all the Latin work of the college course, and it is expected that applicants for admission will be well versed in it. A brief scheme of approximately equivalent sounds in English is here given: *a* is pronounced as in *father*, *e* as in *they*, *i* as in *machine*, *o* as in *tone*, *u* as *oo* in *boot* (the long and short vowels have the same quality of sound, but the latter are pronounced in less time than the former); *ae* as *ay*, *au* as *ou* in *out*, *ei* as in *eight*, *eu* as in *feud*, *oe* as *oi* in *boil*, *ui* as in *quit*; *c* and *g* always as in *come* and *get*, *s* always as in *sin*, *j* as *i* in *valiant*, *v* as *w* in *wit*, *y* as French *u* or German *ü*, *x* as *ks*, *z* as *ds*, *r* always trilled, *ch*, *ph*, and *th* as *c*, *p*, and *t* with the aspiration following, as in *hack-hire*, *haphazard*, *boat-hook*; other consonants as in English.

It is urged that candidates be well drilled in the observance of the laws of quantity in oral reading, especially in Vergil and Ovid.

* For announcement of prize for excellence in the studies preparatory to admission, see "Ayes Prize."

GREEK.—1. Greek grammar, including prosody,—Hadley-Allen's or Goodwin's.

2. Xenophon,—Anabasis, books I.—IV.

3. Homer,—Iliad, books I.—III.

4. Translation at sight of one or more passages from Xenophon.

5. Translation into Greek of easy narrative passages based on the required books of the Anabasis.

ANCIENT HISTORY AND GEOGRAPHY.—1. History of Rome to the death of Marcus Aurelius.

2. History of Greece to the capture of Corinth, 146 B. C.

3. Ancient geography.

The following books are recommended as the basis of instruction in ancient history and geography:—

1. Allen's Short History of the Roman People (Part II. of Myers and Allen's Ancient History), pp. 1–275.

2. Myers' Eastern Nations and Greece (Part I. of Myers' and of Myers and Allen's Ancient History), beginning with Section II.

3. Tozer's Primer of Ancient Geography.

Familiarity with map-drawing is also especially desirable.

MATHEMATICS.—1. Algebra,—Fundamental operations, factors, common divisors and multiples, fractions, negative quantities and the interpretation of negative results, powers and roots, the binomial theorem for positive integral exponents, radicals, equations of the first and second degrees with one or more unknown quantities, putting problems into equations, ratios and proportions, variation, arithmetical, geometrical, and harmonical progressions.

2. Plane geometry,—Demonstrations, constructions, and solutions of numerical problems.

ENGLISH.—1. *Reading and Practice*. A limited number of books are assigned for reading. The candidate is required to present evidence of a general knowledge of the subject-matter of these books, and to answer simple questions on the lives of their authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and calls for only a general knowledge of the substance of the books. In

place of a part or the whole of this test, the candidate may present an exercise book, properly certified to by his instructor, containing compositions or other written work done in connection with the reading of the books. In preparation for this part of the requirement, it is important that the candidate shall have been instructed in the fundamental principles of rhetoric.

The books set for this part of the examination will be:—

1900—Dryden's *Palamon and Arcite*; Pope's *Iliad*, Books I., VI., XXII., and XXIV.; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *Vicar of Wakefield*; Scott's *Ivanhoe*; De Quincey's *Flight of a Tartar Tribe*; Cooper's *Last of the Mohicans*; Tennyson's *Princess*; Lowell's *Vision of Sir Launfal*.

1901 and 1902—Shakspeare's *Merchant of Venice*; Pope's *Iliad*, Books I., VI., XXII., and XXIV.; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *Vicar of Wakefield*; Coleridge's *Ancient Mariner*; Scott's *Ivanhoe*; Cooper's *Last of the Mohicans*; Tennyson's *Princess*; Lowell's *Vision of Sir Launfal*; George Eliot's *Silas Marner*.

1903, 1904, and 1905—Shakspeare's *Merchant of Venice* and *Julius Caesar*; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's *Vicar of Wakefield*; Coleridge's *Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *Princess*; Lowell's *Vision of Sir Launfal*; George Eliot's *Silas Marner*.

2. *Study and Practice.* A smaller number of books are assigned for more careful study. The examination upon these books covers subject-matter, form, and structure, and also tests the candidate's ability to express his knowledge with clearness and accuracy. In addition, the candidate may be required to answer questions involving the essentials of English grammar, and questions on the leading facts in those periods of English literary history to which the prescribed works belong.

The books set for this part of the examination will be:—

1900—Shakspeare's *Macbeth*; Milton's *Paradise Lost*, Books I. and II.; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton* and on Addison.

1901 and 1902—Shakspeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton* and on Addison.

1903, 1904, and 1905—Shakspeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton* and on *Addison*.

NOTE.—No candidate will be accepted in English whose work is notably defective in point of spelling, punctuation, idiom, or division into paragraphs.

LATIN-SCIENTIFIC COURSE.

Candidates for admission to the Latin-Scientific Course are examined in the following subjects:—

LATIN.—Same requirements as for the Classical Course.

ANCIENT HISTORY AND GEOGRAPHY.—Same requirements as for the Classical Course, including Greek history and geography.

MATHEMATICS.—Same requirements as for the Classical Course.

ENGLISH.—Same requirements as for the Classical Course.

Four additional courses, to be selected from the following list (provided that at least one course in modern languages must be selected):—

1. ELEMENTARY FRENCH (counting as two courses).—Such a knowledge of the language is required as may be obtained by the reading of at least 400 pages, part of which should be read at sight. The examination consists of easy passages at sight, elementary grammatical questions, and the translation of simple English sentences into French. To meet this requirement two years' work will generally be necessary.

2. ELEMENTARY GERMAN (counting as two courses).—Such a knowledge of the language is required as may be obtained by the reading of at least 300 pages, part of which should be read at sight. The examination consists of easy passages at sight, elementary grammatical questions, and the translation of simple English sentences into German. To meet this requirement two years' work will generally be necessary.

3. ADVANCED FRENCH.—The requirement includes the reading of at least 400 additional pages of French (not more than half of which should be fiction), and regular practice in writing and speaking French. At least one additional year of study will be necessary to meet this requirement.

4. ADVANCED GERMAN.—The requirement includes the reading of at least 300 additional pages of German (not more than half of which should be fiction), and regular practice in writing and speaking German. At least one additional year of study will be necessary to meet this requirement.

5. ADVANCED MATHEMATICS (counting as two courses).—(1) Solid geometry. (2) Plane trigonometry, with the use of logarithmic and trigonometric tables. (3) Analytical geometry,—the straight line, the circle, and elementary properties of the conic sections.

6. PHYSICAL GEOGRAPHY AND BOTANY.—(1) In physical geography, such a knowledge of the subject is required as may be gained from the study of Geikie's Elementary Lessons in Physical Geography, Tarr's Elementary Physical Geography, or Davis and Snyder's Physical Geography.

(2) In botany, the candidate must show such a knowledge of the subject as may be gained from either (1) the study of Gray's Lessons in Botany, accompanied by analysis and description of flowers; or (2) the study of morphological and structural botany, as included in the more recent elementary botanical text-books of Spaulding or Bergen.

7. PHYSICS.—(1) Such a knowledge of the subject is required as may be gained from Carhart and Chute's Elements of Physics, Gage's Elements of Physics, Avery's School Physics, or Appleton's School Physics.

(2) The candidate must also have performed a series of at least thirty experiments *involving careful measurements*, in addition to any qualitative or very simple quantitative experiments he may have performed, and must present his original note-book, containing full records of the experiments, and certified to by his instructor. Such experiments as the exercises in Hall and Bergen's Textbook of Physics, or the less simple experiments in Chute's Physical Laboratory Manual or Gage's Manual of Physical Experiments, will be considered satisfactory.

8. CHEMISTRY.—(1) Such a knowledge of the subject is required as may be gained from Storer and Lindsay's Manual of Chemistry (omitting pp. 230-286), or from Remsen's Chemistry, Elementary Course.

(2) The candidate must also have performed a series of at least fifty experiments, and must present his original note-book, containing records of the processes and results of the experiments, and certified to by his instructor.

9. HISTORY OF ENGLAND AND OF THE UNITED STATES.—Such a knowledge of the subject is required as may be gained from Montgomery's Leading Facts of English History, and Johnston's History of the United States for Schools or Montgomery's Leading Facts of American History.

SCIENTIFIC COURSE.

Candidates for admission to the Scientific Course are examined in the following subjects:—

MATHEMATICS.—Same requirements as for the Classical Course.

ENGLISH.—Same requirements as for the Classical Course.

HISTORY OF ENGLAND AND OF THE UNITED STATES, as specified on page 32.

Eight additional courses, to be selected from the following list (provided that at least one course in modern languages and at least one course in natural science must be selected):—

1. ELEMENTARY LATIN (counting as two courses).—Grammar, Caesar's Gallic War, books I.–IV.; translation into Latin of simple English sentences.

2. ADVANCED LATIN.—(1) *Either* Cicero,—the four orations against Catiline, and those for Archias and for the Manilian Law; *or* Vergil,—Eclogues, and Aeneid, books I.–VI. (2) Translation at sight into English of passages of easy narrative prose Latin.

3. ADVANCED MATHEMATICS (counting as two courses), as specified on page 31.

4. ELEMENTARY FRENCH (counting as two courses), as specified on page 30.

5. ELEMENTARY GERMAN (counting as two courses), as specified on page 30.

6. ADVANCED FRENCH, as specified on page 30.

7. ADVANCED GERMAN, as specified on page 31.
 8. PHYSICAL GEOGRAPHY AND BOTANY, as specified on page 31.
 9. PHYSICS, as specified on page 31.
 10. CHEMISTRY, as specified on page 31.
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SPECIAL COURSES.

Special students, not candidates for a degree, may be admitted, upon passing such examinations as the Faculty shall in each case prescribe.

GENERAL REGULATIONS CONCERNING ADMISSION.

ADVANCED STANDING.—All candidates for advanced standing are examined in the preparatory studies, and also in those previously pursued by the classes they propose to enter, or in other studies equivalent to them. No candidate can be admitted later than at the beginning of the Senior year.

PRELIMINARY EXAMINATIONS.—A candidate for admission may obtain a preliminary record a year or more in advance of the time at which he expects to enter college, on condition of passing, in the June and September examinations of any year taken together, in the equivalent of at least half of the requirements for admission. Teachers and prospective candidates for admission may obtain from the Secretary of the Faculty on demand a schedule of the values which will be assigned to each subject by the Faculty in determining the question of a student's preliminary record.

DATE AND PLACE OF EXAMINATIONS.—The regular examination for admission is held on the Thursday and Friday of Commencement week. Candidates must present themselves at South College at 9 A. M. on the former day. A second examination is held, commencing on the day preceding the first day of the first term. Candidates may be examined in Philadelphia, Cleveland, Cincinnati, or Chicago, provided they make application to the President before June 1. The time of these examinations will be Thursday and Friday of Commencement week. If no applications are received before June 1, these examinations will not be held.

ADMISSION BY CERTIFICATE.—Certificates covering the foregoing requirements for admission to college are received from certain schools of good standing, which have been approved by the Faculty. Hereafter the privilege of certification will not be given to schools which require less than four years of Latin and three years of Greek in their college preparatory course.

Diplomas (but not certificates) issued by the Regents of the University of the State of New York, and pass cards supplementary to such diplomas, will be received in lieu of examination in the subjects which they cover.

Students entering by certificate are considered as on trial until the completion of the mid-year examinations. A student admitted to college on certificate, who is dismissed during his Freshman year on account of inability to keep up with his class, must take examinations in all subjects required for admission, in case he desires to return to college.

Detailed information concerning admission by certificate may be obtained on application to the President, or to the Secretary of the Faculty.

Women are admitted to equal privileges in the University with men.

All candidates for admission must present satisfactory testimonials of good moral character; and certificates of regular dismission will be required from those who have been members of other colleges.



COURSES OF INSTRUCTION.

For regulations concerning selection of studies, see page 68.

The figures ¹ or ² following the number of a course indicate respectively that the course is offered for the first or the second half-year.

The place of meeting of each course is indicated by means of the following abbreviations: N. C.=North College; S. C.=South College; L. CH.=Lower Chapel; L. CH. 2=Small recitation room, Lower Chapel; J. H.=Judd Hall; O. H.=Observatory Hall; CHEM. LAB., PHYS. LAB., BIOL. LAB.=Chemical, Physical, Biological Laboratory.

The Roman numerals in parenthesis following each course indicate the examination group to which it is assigned. A tabular view of the groups is given on pages 66 and 67.

The mark * prefixed to the number of a course indicates that it can be elected only with the previous approval of the instructor.

LATIN.

PROFESSOR MERRILL; ASSOCIATE PROFESSOR NICOLSON; DR. LEASE.

I. LIVY,—Books 21 and 22 (*first half-year*). TERENCE,—Adelphoe; PLAUTUS,—Captivi; CICERO,—De Senectute (*second half-year*). Exercises in sight translation and in prose composition throughout the year. SECTION 1, *Mon., Wed., Th., Fri., at 9*; SECTION 2, *Mon., Wed., Th., Fri., at 11*; SECTION 3, *Mon., Wed., Th., Fri., at 12*. 5 S. C. PROFESSOR NICOLSON AND DR. LEASE. (II.)

Course I. is required of Classical and Latin-Scientific Freshmen.

II.¹ CICERO,—Selected Letters. *Tu., Th., at 9 (first half-year)*.
2 S. C. PROFESSOR MERRILL. (VIII.)

III.² PLINY THE YOUNGER,—Selected Letters. *Tu., Th., at 9 (second half-year)*. 2 S. C. PROFESSOR MERRILL. (VIII.)

IV.¹ SELECTIONS FROM ROMAN POETRY. *Tu., Th., at 3 (first half-year)*. 5 S. C. DR. LEASE. (XII.)

V.² HORACE,—Odes and Epodes. *Tu., Th., at 3 (second half-year)*. 5 S. C. DR. LEASE. (XII.)

Courses II.-V. are elective for those who have taken Course I.

* VI. LATIN PROSE COMPOSITION. The course begins with the systematic study of the elementary principles of Latin rhetoric, accompanied by brief practical exercises, and proceeds, in the second half-year, to the rendering into Latin of connected passages of modern historical and epistolary prose. The work is varied from year to year in accordance with individual needs, so that it may often be elected with advantage by the same student for a second year. But in all such cases, the previous approval of the instructor must be obtained. *Mon., Wed., at 3.* 3 S. C. DR. LEASE.

Course VI. is elective, with the permission of the instructor, for those who have taken Course I. Prospective candidates for preliminary honors in classics are advised to elect it in the Sophomore year.

VII.¹ LUCRETIUS,—Books 1 and 3, and selections from the other books. *Tu., Th., at 12 (first half-year).* 5 S. C. PROFESSOR NICOLSON. (XI.)

VIII.² CATULLUS. *Tu., Th., at 12 (second half-year).* 5 S. C. PROFESSOR MERRILL. (XI.)

Courses VII. and VIII. are elective for those who have taken at least two of Courses II.—V.

IX.¹ ROMAN SATIRE,—from Ennius to Horace. A brief course of introductory lectures on the nature and early history of Roman satire, followed by illustrative readings from the extant fragments of the satires of Ennius, Lucilius, and Varro, and from the most characteristic satires of Horace. *Tu., Th., at 11 (first half-year).* 40 N. C. PROFESSOR MERRILL. (X.)

X.² ROMAN SATIRE. A course in continuation of Course IX., with readings from the satires of Petronius, Seneca, Persius, and Juvenal. *Tu., Th., at 11 (second half-year).* 3 S. C. PROFESSOR NICOLSON. (X.)

Courses IX. and X. are elective for those who have taken at least two of Courses II.—V.

* XI. ROMAN TOPOGRAPHY AND PUBLIC BUILDINGS. A course of lectures, illustrated by photographs, engravings, and lantern-slides, and requiring some collateral study of original and of secondary authorities, and the careful preparation of note-books. *Wed., Fri., at 9.* 40 N. C. PROFESSOR MERRILL. (II.)

* XII. ROMAN PRIVATE LIFE AND SOCIAL INSTITUTIONS. A course of lectures, illustrated by photographs, engravings, and lantern-slides, and requiring some collateral study of original and of secondary authorities, and the careful preparation of note-books. *Mon., Wed., at 12.* 40 N. C. PROFESSOR MERRILL. (V.)

Courses XI. and XII. are elective, with the permission of the instructor, for those who have taken Course I.

[* XIII. CRITICISM AND INTERPRETATION. A critical study of selected poems of Catullus conducted after the seminary method. *Three times a week.* PROFESSOR MERRILL.]

Course XIII. is elective, with the permission of the instructor, for graduates, and advanced undergraduates. It is omitted the present year.

For the most successful prosecution of even the earlier courses in Latin, ability to read German prose on philological subjects is decidedly advantageous, and for Courses XI.-XIII. it is necessary. Students, therefore, who look forward to the study of Latin beyond the more elementary courses, and who have on admission to college no acquaintance with German, should devote especial attention to that subject in the Freshman year.

The provisional arrangement of courses made necessary by the absence of Professor Merrill during the year 1898-99 continues through the present year also, and hence only the courses in Latin actually given the present year are enumerated above. The return to the regular scheme of work will be made in 1900-1901, and the full list of courses will be announced in the next *Bulletin*.

GREEK.

PROFESSOR VAN BENSCHOTEN; ASSOCIATE PROFESSOR PATON.

I. LYSIAS,—Select Orations; HERODOTUS,—History of the Persian Wars (*first half-year*). PLATO,—Apology and Crito; HOMER,—Odyssey V.-VIII. (*second half-year*). Exercises in Greek composition and in translation at sight throughout the year. SECTION 1, *Tu., Wed., Th., Fri., at 10*; SECTION 2, *Tu., Wed., Th., Fri., at 12.* 2 S. C. PROFESSOR PATON. (III.)

Course I. is required of Classical Freshmen.

II. DEMOSTHENES,—Philippics. PLUTARCH,—Life of Demosthenes. Collateral reading in Greek history (*first half-year*). SOPHOCLES,—Oedipus Tyrannus. Lectures and collateral readings on the Attic theatre and on the Oedipus legend in the Greek dramatists (*second half-year*). *Tu., Th., at 11.* 2 S. C. PROFESSOR PATON.

Course II. is elective for those who have taken Course I. (X.)

III. THE LIFE AND LANGUAGE OF THE GREEKS. *Tu., at 12.*
3 S. C. PROFESSOR VAN BENSCHOTEN. (XI.)

Course III. is elective for those who take, or have taken, Course II.

[IV. GREEK COMEDY. The Frogs and the Acharnians of Aristophanes (*first half-year*). GREEK TRAGEDY. Æschylus, Sophocles, or Euripides (*second half-year*). One meeting each week is devoted to special studies in the Greek language and literature. *Three times a week.* PROFESSOR VAN BENSCHOTEN.]

Course IV. is elective for those who have taken Courses I. and II., and who take, or have taken, Course III.

V. GREEK COMEDY. The Clouds of Aristophanes (*first half-year*). Xenophon; Greek Drama (*second half-year*). One meeting each week is devoted to special studies in the Greek language and literature. *Mon., Wed., Fri., at 8.* 3 S. C. PROFESSOR VAN BENSCHOTEN. (I.)

Course V. is elective for those who have taken Courses I. and II., and who take, or have taken, Course III.

Courses IV. and V. are given in alternate years, Course IV. being omitted the present year.

VI. BIBLICAL GREEK. The text used is Scrivener's New Testament in Greek, with the Revisers' Readings. Collateral studies; texts and translations. *Tu., Th., at 9.* 3 S. C. PROFESSOR VAN BENSCHOTEN. (VIII.)

Course VI. is elective for those who have taken Course II.

VII. PINDAR; BACCHYLIDES; Lyric Poetry (*first half-year*). LUCIAN; PAUSANIAS; Neo-Hellenic,—with collateral work on the geography and topography of Greece (*second half-year*). One meeting each week is devoted to special advanced studies in the Greek language and literature. *Mon., Tu., Th., at 10.* 3 S. C. PROFESSOR VAN BENSCHOTEN. (IX.)

Course VII. is elective for those who have taken either Course IV. or Course V.

VIII. SEMINARY FOR THE STUDY OF GREEK ARCHÆOLOGY.
Fri., at 12. 3 S. C. PROFESSOR VAN BENSCHOTEN. (V.)

Course VIII. is elective for those who have taken Courses I. and II., and who take, or have taken, Course III.

[IX. GREEK LITERATURE. Lectures and collateral reading. *Once a week.* PROFESSOR VAN BENSCHOTEN.]

Course IX. is elective for those who have taken Courses I. and II., and who take, or have taken, Course III.

Courses VIII. and IX. are given in alternate years, Course IX. being omitted the present year.

For Greek history, see Course II. in history.

It is very desirable that those who elect the advanced courses in Greek should be able to read German prose on philological subjects.

GERMAN.

ASSOCIATE PROFESSOR FAUST; MR. FORD.

I. ELEMENTARY GERMAN. Harris' German Lessons, and German Reader. Heyse,—L'Arrabbiata; Storm,—Immensee; Wildenbruch,—Das edle Blut; Zschokke,—Das Abenteuer der Neujahrsnacht, Der zerbrochene Krug; Fouqué,—Undine. Thomas' Practical German Grammar, Part I. SECTION 1, *Mon., Wed., Fri., at 8.* PROFESSOR FAUST. SECTION 2, *Mon., Wed., Fri., at 2.* MR. FORD. 12 S. C. (I.)

For rules in regard to the election of I. German, see page 43.

II. ADVANCED GERMAN. READINGS. Classical: Schiller,—Wilhelm Tell; Lessing,—Minna von Barnhelm; Goethe,—Hermann und Dorothea; Heine's Prose (Macmillan). Historical: Freytag,—Aus dem Staat Friedrichs des Grossen. At sight: Moser,—Der Bibliothekar; Chamisso,—Peter Schlemihl. PROSE COMPOSITION AND GRAMMAR. Harris' Selections for German Composition. Thomas' Practical German Grammar, Part II. *Mon., Wed., Fri., at 11.* II S. C. PROFESSOR FAUST. (IV.)

Course II. is elective for those who have taken Course I.

III. GERMAN CONVERSATION. For acquiring a vocabulary and readiness in the use of German, Meissner's Practical Lessons in German Conversation serve in part as guide. All class exercises are conducted in the German language. Readings and lectures in German are given on subjects relating to the geography (illustrated by physical and political maps) and *Kulturgeschichte* of Germany. *Th. at 11.* 6 S. C. PROFESSOR FAUST.

Course III. is elective for those who have taken Courses I. and II., or their equivalent. It may be elected, with the permission of the instructor, together with Course II.

IV. PROSE COMPOSITION AND ADVANCED GRAMMAR. Von Jagemann's Prose Composition; Bauer-Duden,—Neuhochdeutsche Grammatik. Theme-writing; discussion of methods of teaching German. *Mon. at 3.* 6 S. C. PROFESSOR FAUST. (VI.)

Course IV. is elective, with the permission of the instructor, for those who have taken Courses I.—III.

[V. GOETHE AND SCHILLER. Goethe,—Faust, (edited by Thomas), Part I., and selected portions of Part II. A critical study of the text, and discussion of the questions concerning the beginnings and the composition of the drama. Schiller,—Wallenstein trilogy. Study of the lives and works of the two authors. *Twice a week.* PROFESSOR FAUST.]

Course V. is elective for those who have taken Courses I.—III., or their equivalent. It is omitted the present year.

VI.¹ MIDDLE HIGH GERMAN. Paul's Mittelhochdeutsche Grammatik. Das Nibelungenlied, (edited by Zarncke). Walther von der Vogelweide, (edited by Paul). *Wed., 2-4 (first half-year), counting as two exercises a week.* 6 S. C. PROFESSOR FAUST. (VI.)

Course VI. is elective for those who have taken Courses I.—III., or their equivalent.

VII.¹ THE HISTORY OF GERMAN FICTION. Lectures and reports. Outline: Earliest prose fiction, Grimmelshausen's *Simplicissimus* (seventeenth century); the Robinsonaden, and English influence (eighteenth century). Goethe's *Wilhelm Meister*; the romanticists; foreign influences (Scott; the historical and exotic romances); the national, and the modern realistic novel. Readings: Scheffel,—*Eckehard*; Freytag,—*Soll und Haben*; selected short stories of Auerbach, Storm, Heyse, Hillern, Ebner-Eschenbach. *Tu., Th., at 9 (first half-year).* 6 S. C. PROFESSOR FAUST. (VIII.)

VIII.² GERMAN LITERATURE. The period selected for special study is the eighteenth century. Class readings include Lessing's *Nathan der Weise*, and selections from the works of Wieland and Klopstock. *Tu., Th., at 9 (second half-year)*. 6 S. C. PROFESSOR FAUST. (VIII.)

Courses VII. and VIII., except in special cases where the instructor's permission is obtained, are elective for those only who have taken Courses I.-III.

Graduate Instruction.

Courses V.-VIII. are designed also for graduate students. Those desiring advanced work in German literature, or an introduction to the study of German philology, are assigned courses of private reading.

ROMANCE LANGUAGES.

PROFESSOR KUHN; MR. FORD.

I. ELEMENTARY FRENCH. Whitney's *Practical French Grammar*, Part I., and Kuhns' *French Reading for Beginners*. Victor Hugo,—*Quatrevingt-treize*; Erckmann-Chatrian,—*Madame Thérèse*; About,—*Le Roi des Montagnes*. Part of these books are read at sight. Especial attention is paid to personal drill in pronunciation. SECTION 1, *Mon., Wed., Fri., at 8*; SECTION 2, *Mon., Wed., Fri., at 3*. 6 S. C. PROFESSOR KUHN AND MR. FORD. (I.)

For rules in regard to the election of I. French, see page 43.

II. ADVANCED FRENCH. Whitney's *Grammar*, Part II., and Grandgent's *French Composition*. This course has for its main object the study of advanced grammar and composition, in connection with the reading of a large amount of French. During the second half-year more attention is paid to the literature. *Tu., Th., at 8*. 12 S. C. MR. FORD. (VII.)

Course II. is elective for those who have taken Course I.

* III. FRENCH CONVERSATION. Bercy,—*Le Français Pratique*. During the year informal lectures on travel in Europe are given in French. Some of the lectures are illustrated by lantern slides. *Fri. at 12*. 6 S. C. PROFESSOR KUHN.

Course III. is elective, with the permission of the instructor, for those who have taken Course I.

IV. MODERN FRENCH LITERATURE. Selections from the works of the more important authors of the seventeenth, eighteenth, and nineteenth centuries. There is at each recitation translation of English into French. Further, frequent lectures are given on the general state of literature in France in the seventeenth, eighteenth, and nineteenth centuries. In addition, each member of the class must take a somewhat extended course of reading, must prepare for the class an abstract of what he has read, and must also write a short essay in French on the life of a selected author. *Tu., Th., at 10.* 6 S. C. PROFESSOR KUHN. (IX.)

Course IV. is elective for those who have taken Courses I.-III.

[V. OLD FRENCH. Constans' Chrestomathie de l'Ancien Français. Lectures and exercises in Old French etymology, based on La Vie de St. Alexis. *Once a week.* PROFESSOR KUHN.]

Course V. is elective for those who have taken Courses I.-IV. It is omitted the present year.

VI. MÆDIEVAL FRENCH LITERATURE. Lectures and collateral reading. *Fri. at 9.* 6 S. C. PROFESSOR KUHN. (II.)

Course VI. is elective for those who have taken Courses I.-IV.

[VII. SEMINARY COURSE, for those who expect to teach French. Special work in pronunciation, grammar, and composition. *Once a week.* PROFESSOR KUHN.]

Course VII. is elective for those who have taken Courses I.-IV. It is omitted the present year.

VIII. ELEMENTARY ITALIAN. Italian Principia, I. De Amicis, —Cuore; Manzoni, —I Promessi Sposi; Pellico, —Le Mie Prigioni. In addition to the regular work by the class in translating modern prose, the instructor translates and interprets to the class the Inferno and the Purgatorio of Dante, the last half-hour of each recitation being devoted to this exercise. As a preparation for this part of the work, the class is required to read Rossetti's Shadow of Dante. *Mon., Wed., at 9.* 6 S. C. PROFESSOR KUHN. (II.)

Course VIII. is elective for Sophomores who have taken I. French.

IX. ADVANCED ITALIAN. Dante, Petrarch, Tasso, Ariosto. Lectures on the history of Italian literature. *Tu., Th., at 8.* 6 S. C. PROFESSOR KUHN. (VII.)

Course IX. is elective for those who have taken Course VIII.

Graduate Instruction.

Courses V.-VII. are designed for graduate students, but are elective for undergraduates.

Of the courses in French and German, Classical Freshmen are required to pursue either I. French or I. German, but are allowed their option between the two. Students in the Latin-Scientific Course are examined at entrance in the equivalent of either I. French or I. German, as they may elect, and in the Freshman year are required to pursue one course in French or German, but may continue the study of the language in which their entrance examination was taken, or may begin the study of the other language, as they may elect. Students in the Scientific Course are required to complete the equivalent of Courses I. and II. in French and I. and II. in German. Such of these courses as they have not pursued and passed in before entering college, they must take as soon as possible after entering.

ENGLISH LITERATURE.

PROFESSOR WINCHESTER.

I. GENERAL INTRODUCTION TO ENGLISH LITERATURE. 1. An outline of the history of the literature. Stopford Brooke's *English Literature*, with lectures. *First half-year*. 2. Class-room reading and discussion of literary masterpieces. The works selected are:—Chaucer's Prologue to the *Canterbury Tales*, and the *Nonne Preestes Tale*; Shakspeare's *Hamlet*; selections from Pope's *Satires*. *Second half-year*. 3. A brief course of collateral reading, with written recitations and essays upon subjects drawn from the reading. Members of the class may choose any one of the courses in Winchester's *Five Short Courses of Reading in English Literature*. These courses consist of selections from the following authors:—

- (1.) 1559-1674. Marlowe, Green, Shakspeare, Bacon, Milton.
- (2.) 1660-1745. Dryden, Addison, Steele, Swift; with Johnson's *Lives of Dryden, Swift, and Pope*, and Thackeray's *Lectures on the English Humourists*.
- (3.) 1745-1789. Gray, Goldsmith, Johnson, Burke, Cowper, Burns; with Leslie Stephen's *Life of Johnson*, Dobson's *Life of Goldsmith*, Morley's *Life of Burke*.

(4.) 1789-1832. Wordsworth, Coleridge, De Quincey, Lamb, Byron, Shelley, Keats.

(5.) 1832-1880. Carlyle, Ruskin, Matthew Arnold, Browning, Tennyson. *Mon., Wed., at 12.* 11 S. C. (V.)

Course I. is elective for Sophomores.

*II. ENGLISH POETRY, 1789-1832. Burns, Wordsworth, Coleridge, Southey, Scott, Byron, Shelley, Keats. Critical reading and discussion; lectures. SECTION 1, *Mon., Wed., Fri., at 9;* SECTION 2, *Mon., Wed., Fri., at 11.* 56 N. C. (II.)

Course II. is elective (with some restrictions) for those who have taken Course I.

[*III. ENGLISH LITERATURE OF THE VICTORIAN PERIOD. *Twice a week.*]

Course III. is elective (with some restrictions) for those who have taken Course I. It is omitted the present year.

[In the college year 1900-1901 and thereafter, there will be three courses of instruction in English literature offered every year, Course I., either Course II. or Course III., and a new course open to Seniors. Course I. will be elective for Sophomores; Courses II. and III. will be elective for those who have taken Course I.; the new Senior course will be elective (with some restrictions) for those who have taken Course I. and either Course II. or Course III.]

IV. ELEMENTS OF LITERARY CRITICISM. Discussion of the essential elements and the various forms of literature, with practical exercises in the application of critical principles. Winchester's Principles of Literary Criticism is used as a text-book. *Wed. at 8.* L. CH. 2. (I.)

Course IV. is elective for those who have taken Course I.

V. DEBATE. Weekly practical exercises. Two members of the class are appointed to conduct the debate at each exercise. They must prepare written briefs of their argument, which are revised and corrected by the instructor, and are then publicly posted four days before the debate.

Course V. is elective for Seniors, and those who elect it are excused from half the rhetorical work required in Course VI. *Mon. at 10.* L. CH. 2.

VI. ENGLISH COMPOSITION. The rhetorical exercises of the Senior class are assigned to this department. Every Senior (unless excused from half this requirement by the provisions of Course V.), must write either four essays or two orations. All written work receives the personal criticism of the instructor, and the orations are also rehearsed before the instructor in elocution.

Graduate Instruction.

Special provision for graduate instruction is made to meet the wants of individual students.

ENGLISH LANGUAGE

PROFESSOR MEAD.

I. RHETORIC. Scott and Denney's Paragraph Writing, Mead's Composition and Rhetoric. As a study in modern prose style, the class read and discuss in the class-room Macaulay's Essay on Croker's edition of Boswell's Life of Johnson, and Brewster's Studies in Structure and Style. For supplementary reading, Wendell's English Composition is recommended. The members of the class are required to write numerous exercises illustrating and applying the principles laid down in the text-books. These exercises are discussed and criticized in the class-room, and also privately at regular times appointed by the instructor. SECTION 1, *Mon. at 8*; SECTION 2, *Mon. at 9*; SECTION 3, *Tu. at 8 (counting as two exercises a week)*. 6 S. C. (VII.)

Course I. is required of Freshmen.

II.¹ OLD ENGLISH. An introductory course, based upon Smith's Old English Reader, with exercises and easy readings. Elementary studies of the history of the English language are based upon Skeat's Primer of English Etymology. *Wed., Fri., at 8 (first half-year)*. 6 S. C. (I.)

Course II. is elective for Sophomores.

III.² OLD ENGLISH. Bright's Anglo-Saxon Reader, with additional readings in prose or poetry, as the class may elect. This year a choice is offered between the Anglo-Saxon Chronicle and Cynewulf's Elene. *Wed., Fri., at 8 (second half-year)*. 6 S. C. (I.)

Course III. is elective for those who have taken Course II.

IV. ENGLISH COMPOSITION. A. Sophomores are required to write six essays during the year on subjects approved by the instructor.

B. Juniors write on subjects of their own selection, and choose one of the two following courses: Course I., consisting of five general and two departmental essays; Course II., consisting of two general and four departmental essays. The departmental essays must be written on subjects related to some department of college work and approved by the instructor in English.

[V. OLD ENGLISH LITERATURE. A course of lectures on the history of Old English literature before 1100 A. D., with some account of contemporary Germanic literature. The aim of this course is to give a survey of all the Old English prose and poetry before the Norman Conquest, and to describe the life of which the literature is a reflection. *Once a week.*]

Course V. is elective for Sophomores. It is omitted the present year.

*VI. MIDDLE ENGLISH. The period to be studied extends from Layamon to the imitators of Chaucer.

1. Morris and Skeat's *Specimens of Early English*. The second half-year is devoted principally to Chaucer. The historical development of the literature is treated in weekly lectures (see Course VII.). For collateral reading, ten Brink's *History of English Literature* is recommended. 2. Each member of the class elects a course of collateral reading, and presents at least one written report on a topic requiring special investigation:—

(1) Selections from the Arthurian Romances, with a study of some of their sources. (2) Selected verse romances (not Arthurian). (3) Selections from Chaucer's *Canterbury Tales* and minor poems. *Tu., Th., at 3.* 2 S. C. (XII.)

Course VI. is elective, with the permission of the instructor, for those who have taken Course II. Those who elect it must elect also Course VII.

VII. MIDDLE ENGLISH LITERATURE. A course of lectures on English literature from the Norman Conquest to the Revival of Learning. The aim of this course is to point out the relations of the early literature of England to the contemporary literature of Europe, and to indicate the materials that have been used again in modern English literature. Especial attention is given to the Arthurian Romances and to Chaucer. *Fri. at 3.* 2 S. C. (VI.)

Course VII. is elective for Juniors, even for those who have not taken Course II., but is required of those who elect Course VI.

[*VIII. RAPID READING OF EARLY ENGLISH LITERATURE, including selections from Chaucer's Canterbury Tales, early English ballads, the Miracle and Mystery plays, and Malory's Morte Darthur. *Once a week.*]

Course VIII. is elective, with the permission of the instructor, for all Juniors. It is omitted the present year.

[IX. BEOWULF. An advanced course in Old English poetry, with supplementary linguistic investigations involving comparison of Old English and Gothic forms. *Once (counting as twice) a week.*]

Course IX. is elective for those who have taken Course III. It is omitted the present year.

X. ENGLISH ETYMOLOGY. An advanced course involving previous acquaintance with English historical grammar and the elements of Gothic. *Mon. at 3. (counting as two exercises a week).* 2 S. C. (VI.)

Course X. is elective for those who have taken Course IX. Courses IX. and X. are given in alternate years, Course IX. being omitted the present year.

ELOCUTION.

PROFESSOR HIBBARD.

I. DECLAMATION. Members of the Freshman class are required to deliver declamations, mostly of their own selection, fortnightly.

Every member of the Sophomore class is required to deliver nine, and every member of the Junior class is required to deliver six declamations during the year.

II. THEORY OF ELOCUTION. I. Mechanics of speech. Theories of vocal expression. Text-book, Russell's Vocal Culture. *First term.*

2. Gesture. Theories of Austin and Delsarte. Text-book, Bacon's Manual of Gesture. *Second term.*

3. Study of expression. Lectures on methods of public speech and on sources of power in oratory. *Third term. Tu., Th., at 3. L. CH. (XII.)*

Course II. is elective for Juniors.

HISTORY.

ASSOCIATE PROFESSOR FARRAND; ASSOCIATE PROFESSOR PATON.

I. OUTLINES OF GENERAL HISTORY. European history, from the time of the German migrations to the outbreak of the French Revolution, with an introductory survey of ancient oriental and classical history. Ploetz' Epitome of Universal History (Tillinghast's translation) and Adams' European History; lectures and recitations. *Mon., Wed., at 9.* L. CH. PROFESSOR FARRAND. (II.) Course I. is elective for Sophomores.

II. GREEK HISTORY. Especial attention is given to the course of Greek civilization, and to the more important forms of government in the Greek states. *Tu., Th., at 2.* 3 S. C. PROFESSOR PATON. Course II. is elective for Juniors.

[III.¹ HISTORY OF FRANCE. A sketch of French history from the election of Hugh Capet to the beginning of the Revolution in 1789. Adams' Growth of the French Nation is used as a text-book, supplemented by lectures and collateral reading. *Twice a week (first half-year).* PROFESSOR FARRAND.]

Course III. is elective for those who have taken Course I. It is omitted the present year.

[IV.² MODERN EUROPEAN HISTORY. The French Revolution is the central subject of the first part of this course, followed by a sketch of the history of modern Europe to the close of the Franco-Prussian war. Text-book, collateral reading, lectures, and recitations. *Twice a week (second half-year).* PROFESSOR FARRAND.]

Course IV. is elective for those who have taken Course I. or Course III. It is omitted the present year.

V. HISTORY OF ENGLAND. English history, from the time of the Anglo-Saxon invasions to the middle of the present century. Gardiner's History of England, Colby's Selections from the Sources of English History; collateral reading, lectures, and recitations. *Tu., Th., at 12.* L. CH. PROFESSOR FARRAND. (XI.)

Course V. is elective for Juniors who take, or have taken, Course I.

VI. UNITED STATES HISTORY. The history of the United States from the Revolution to the Civil War. Hart's Formation of the Union, Wilson's Division and Reunion, MacDonald's Select Documents of United States History; collateral reading, investigation of

assigned topics, lectures, recitations, and discussion of documents.
Tu., Th., at 8. L. CH. 2. PROFESSOR FARRAND. (VII.)

Course VI. is elective for Juniors who take, or have taken, Course I.

[VII. EUROPEAN GOVERNMENTS. The governments of the more important state systems of Europe, especially England, France, Germany, and Switzerland, in their origin and present working, are treated in this course. Wilson's State (revised edition) is used as a text-book, supplemented by lectures and collateral readings, with some discussion of the present political situation in the states under consideration. *Twice a week.* PROFESSOR FARRAND.]

Course VII. is elective for those who have taken Course I. It is omitted the present year.

VIII.¹ UNITED STATES GOVERNMENT. The United States Government, state as well as federal, is studied, and the course includes a consideration of some of the more important practical political questions of the day. Bryce's American Commonwealth (abridged edition); collateral reading, lectures, and recitations. *Mon., Wed., at 3 (first half-year).* L. CH. 2. PROFESSOR FARRAND. (VI.)

Course VIII. is elective for Juniors.

IX.² HISTORICAL SEMINARY. The subject for the present year is: Slavery in the United States. *Mon., 7-9 p. m. (second half-year), counting as two exercises a week.* 10 O. H. PROFESSOR FARRAND.

Course IX. is elective for Seniors who take, or have taken, Course VI., and who have received honor grades in the courses they have taken in history. Others are admitted only by special permission of the instructor.

ECONOMICS AND SOCIAL SCIENCE.

PROFESSOR FISHER.

I. PRINCIPLES OF ECONOMIC SCIENCE. General introductory course. Recitations and discussions on the basis of Gide's Principles of Political Economy. *Mon., Wed., at 11.* 12 S. C. (IV.)

Course I. is required in the Junior or Senior year; with the permission of the instructor, it may be taken by Sophomores.

[II. ADVANCED ECONOMICS. This course includes a brief historical view, on the basis of Ingram's History of Political Economy, and critical studies of the theories of value and distribution. *Twice a week.*]

Course II. is elective for those who have taken Course I. It is omitted the present year.

III. PUBLIC FINANCE. The economy of the state:—revenues from taxation, from government industries, and from other sources; the contraction, administration, conversion, and liquidation of public debts; government expenditures, their social and industrial effects. The work of this course is based on Bastable's Public Finance; a number of lectures are also given, and references are made to standard authorities. *Mon., Wed., at 12.* L. CH. 2. (V.)

Course III. is elective for those who have taken Course I. Courses II. and III. are given in alternate years, Course II. being omitted the present year.

IV. MONEY AND BANKING. A course of lectures on the general principles and history of monetary and banking institutions, on the social and industrial aspects of the present monetary situation, and on the various schemes for reform. *Tu., Th., at 9.* L. CH. 2. (VIII.)

Course IV. is elective for those who have taken Course I.

[V. THE GENERAL LABOR PROBLEM. A course of lectures on the nature, causes, and justification of the present social discontent, and on such suggested remedies as moral elevation, charity, education, provident institutions, labor organizations, strikes, conciliation and arbitration, labor legislation, improved wage systems, profit-sharing, coöperation, nationalization of the land, socialism, communism, anarchism. *Twice a week.*]

Course V. is elective for those who have taken Course I. Courses IV. and V. are given in alternate years, Course V. being omitted the present year.

[VI. SOCIOLOGY. A discussion of the fundamental principles of social organization, and the conditions and forms of social progress. *Twice a week.*]

Course VI. is elective for those who take, or have taken, Course I. It is omitted the present year.

VII. SOCIAL SCIENCE. An examination of certain concrete social problems of the present:—pauperism and charity; the defective and criminal classes. The class-room work is supplemented by visits to several of the charitable, penal, and reformatory institutions in and about Middletown. *Tu., Th., at 11.* 11 S. C. (X.)

Course VII. is elective for those who take, or have taken, Course I. Courses VI. and VII. are given in alternate years, Course VI. being omitted the present year.

* VIII. ECONOMIC SEMINARY. Each member of the seminary takes for private individual investigation, under the direction of the instructor, some problem in economics, finance, statistics, or social science, and week by week reports in class on progress made and obstacles met. At the close of the year the work is brought together in a final report or thesis. *Tu., 3-5, counting as two exercises a week.* 14 O. H. (XII.)

Course VIII. is elective, with the permission of the instructor, for those who, having received first or second grade in Course I., take any three of the Courses III.-VII.

Graduate Instruction.

Course VIII. is intended primarily for graduate students, but is open also to such undergraduates of the Senior year as are making special studies in the department. Courses II.-VII., while intended primarily for undergraduates, may also be taken with advantage by graduates who have studied only the principles of economic science.

PHILOSOPHY.

† PROFESSOR ARMSTRONG; ASSOCIATE PROFESSOR DODGE.

I.² LOGIC. Jevons-Hill's Elements of Logic. An elementary course in the fundamental forms of reasoned thinking, deductive and inductive alike. The study of the text-book is illustrated by numerous examples in logical praxis. SECTION I, *Wed., Fri., at 9*; SECTION 2, *Wed., Fri., at 3 (second half-year).* 11 S. C. (II.)

Course I. is required of Sophomores.

II.¹ PSYCHOLOGY. Sully's Outlines of Psychology, with references to other authorities. Lectures and discussions are used to supplement the text-book. These are introduced especially in explanation of the more recent psychological discussions, and of positions still under debate. *Mon., Wed., Fri., at 10 (first half-year).* 11 S. C. (III.)

Course II. is required of Juniors.

III. PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY. Ladd's Outlines of Physiological Psychology. The course begins with a

† Absent for the year.

discussion of the physical basis of mind, but more than half of the time is devoted to the study of the chief experimental methods and results. Frequent lectures and experimental demonstrations are given, in addition to the study of the text-book. *Tu., Th., at 3.*
7 S. C. (XII.)

Course III. is elective for Juniors.

IV.¹ ADVANCED LOGIC. Hibben's Inductive Logic. The course opens with several lectures on the history of logic. In connection with the text-book, special attention is given to the discussion of the principles of induction and scientific method and to the criticism of concrete cases of scientific inference. *Tu., Th., at 10 (first half-year).* 7 S. C. (IX.)

Course IV. is elective for Juniors.

[V.¹ INTRODUCTION TO PHILOSOPHY. Lectures and recitations, with references to the Introductions of Stuckenberg, Ladd, and Külpe. *Once a week (first half-year).*]

Course V. may not be elected by itself. It must be combined either with Course IV. or with Course VI. It is omitted the present year.

VI.² ANCIENT AND MEDIAEVAL PHILOSOPHY. Zeller's Outlines of Greek Philosophy, with references to Schwegler, Zeller's larger work, and other authorities; lectures and discussions. *Tu., Th., at 11 (second half-year).* 11 S. C. (X.)

Course VI. is elective, under ordinary circumstances, for those who have taken Course IV. or Course V.

VII.¹ MODERN PHILOSOPHY FROM THE RENAISSANCE TO KANT. Falckenberg's History of Modern Philosophy; lectures, recitations, discussions, and references to other standard histories of philosophy. *Wed., Fri., at 11 (first half-year).* 3 S. C. (IV.)

Course VII. is elective, under ordinary circumstances, for those who have taken Course VI.

VIII.² MODERN PHILOSOPHY FROM KANT TO THE PRESENT TIME. Falckenberg's History of Modern Philosophy; lectures, recitations, discussions, and references to other authorities. *Wed., Fri., at 11 (second half-year).* 3 S. C. (IV.)

Course VIII. is elective for those who have taken Course VII.

[IX. ADVANCED PSYCHOLOGY. The object of this course is the discussion of important selected topics in systematic psychology. The views of leading thinkers are presented in lectures, and in reports by members of the class, and these views are subjected to comparative and independent criticism. *Once a week.*]

Course IX. is elective for those who have taken Course III., or for those who have received first or second grade in Course II. It is omitted the present year.

[* X. LABORATORY COURSE IN PSYCHOLOGY. Experimental study of special problems. *Once a week.*]

Course X. is elective, with the permission of the instructor, for those who have taken Courses II. and III. It is omitted the present year.

XI.¹ READINGS IN MODERN PHILOSOPHY. In this course, representative works of leading thinkers of the first half of the modern period are read and discussed. Special attention is given to selections from Descartes, Locke, Berkeley, and Hume. *Twice a week (first half-year).*]

Course XI. is elective for those who are taking Course VII. It is omitted the present year.

[XII.² METAPHYSICS. Selections from Kant's works and from Lotze's Metaphysics. Class readings and discussions. Topical reports and theses may also be required. *Three times a week (second half-year).*]

Course XII. is elective for those who are taking Course VIII. It is omitted the present year.

Graduate Instruction.

[XIII. GRADUATE SEMINARY. The philosophy of Kant, as given in the Critiques of Pure Reason, Judgment, and Practical Reason. *Once a week.*]

Course XIII. is omitted the present year.

Course XIII. is intended for graduate students, Courses IX.-XII. for advanced undergraduates and graduates. Special courses under the direction of the instructors of the department may be arranged in advanced experimental and theoretical psychology, historical philosophy, and metaphysics.

ETHICS AND RELIGION.

PRESIDENT RAYMOND; PROFESSOR RICE.

I.¹ **ETHICS.** A course of lectures on theoretical and practical ethics. The course begins with a brief historical survey of modern ethical theories, and the lectures are supplemented by theses and collateral reading. *Wed., Fri., at 10 (first half-year).* L. CH. PRESIDENT RAYMOND. (III.)

Course I. is required of Seniors.

II.² **EVIDENCES OF CHRISTIANITY.** Lectures, with collateral readings on all the important topics. *Wed., Fri., at 10 (second half-year).* L. CH. PRESIDENT RAYMOND. (III.)

Course II. is required of Seniors.

III.³ **THEISM.** Instruction is given by lectures, supplemented by collateral readings and class discussions. The purpose of the course is to discover essential religious phenomena, to test the various historic theories offered in explanation of these phenomena, and to find a philosophic basis for faith. *Tu., Th., at 12 (second half-year).* 6 S. C. PRESIDENT RAYMOND. (XI.)

Course III. is elective for those who have taken Courses I., II., V.-VII. in philosophy.

IV.³ **RELATIONS OF SCIENCE AND RELIGION.** A course of lectures on the history of important advances in scientific thought and their bearing upon theistic and Christian belief. The heliocentric astronomy, the antiquity of the earth and of man, the theory of evolution, and the correlation of physical and vital forces, are among the topics discussed. *Tu., Th., at 10 (second half-year).* 11 S. C. PROFESSOR RICE. (IX.)

Course IV. is elective for Juniors.

MATHEMATICS AND ASTRONOMY.

PROFESSOR J. M. VAN VLECK; PROFESSOR E. B. VAN VLECK; DR. LING.

I. **PLANE TRIGONOMETRY.** *First third of the year.*

SOLID GEOMETRY. Phillips and Fisher's Elements of Geometry. *Second third of the year.*

ANALYTICAL GEOMETRY. Bailey and Woods' Analytical Geometry. *Last third of the year.* SECTION I, *Mon., Tu., Th., Fri., at*

9. 12 S. C. DR. LING. SECTION 2, *Mon., Tu., Th., Fri., at 10.*
 12 S. C. PROFESSOR E. B. VAN VLECK. SECTION 3, *Mon. at 12,*
 26 O. H.; *Tu., Th., Fri., at 12,* 12 S. C. DR. LING. (V.)

Course I. is required of Classical and Latin-Scientific Freshmen, and of Scientific Freshmen who did not pass in the advanced requirements in mathematics on admission to college.

II. ALGEBRA. Advanced course, principally in the theory of equations. *Tu., Th., at 11.* 26 O. H. DR. LING. (X.)

Course II. is elective for those who have taken Course I.

[III. TRIGONOMETRY. Advanced course, with applications to problems in surveying and astronomy. *Twice a week.* DR. LING.]

Course III. is elective for those who have taken Course I. It is omitted the present year.

IV. ANALYTICAL GEOMETRY. Advanced course, based upon C. Smith's Conic Sections, with an elementary introduction to solid geometry. *Wed., Fri., at 2.* 26 O. H. DR. LING. (VI.)

Course IV. is elective for those who have taken Course I.

V. DIFFERENTIAL AND INTEGRAL CALCULUS. Elementary course. *Tu., Th., Fri., at 12.* 26 O. H. PROFESSOR E. B. VAN VLECK.

Course V. is elective for those who have taken Course I. (XI.)

Courses II., IV., and V. are necessary for those who purpose to pursue advanced courses in pure mathematics; Course V. is necessary for those intending to pursue advanced courses in physics and other branches of applied mathematics.

VI. DIFFERENTIAL EQUATIONS, based on Murray's Treatise on Differential Equations. *Tu., Th., at 8.* 26 O. H. PROFESSOR E. B. VAN VLECK. (VII.)

Course VI. is elective for those who have taken Course V.

[VII. ANALYTICAL GEOMETRY OF THREE DIMENSIONS, including especially a study of mathematical models. *Twice a week.* PROFESSOR J. M. VAN VLECK.]

Course VII. is elective for those who have taken Course IV., and who take, or have taken, Course V. It is omitted the present year.

VIII. PROJECTIVE GEOMETRY. *Tu. at 2:30; Fri. at 9.* 26 O. H. PROFESSOR E. B. VAN VLECK. (XII.)

Course VIII. is elective for those who have taken Course IV. or Course V.

[IX. THEORY OF FUNCTIONS. Elementary course. *Twice a week.*
PROFESSOR E. B. VAN VLECK.]

Course IX. is elective for those who have taken Course V. It is omitted the present year.

X. THEORY OF FUNCTIONS, in continuation of Course IX. *Mon. at 12, 11 S. C.; Wed. at 9, 26 O. H.* PROFESSOR E. B. VAN VLECK. (V.)

Course X. is elective for those who have taken Course IX.

XI. ELLIPTIC FUNCTIONS. *Wed., Fri., at 11.* 26 O. H. PROFESSOR J. M. VAN VLECK. (IV.)

Course XI. is elective for those who have taken Course IX.

XII. THEORETICAL MECHANICS. *Tu., Th., at 10.* 26 O. H. PROFESSOR J. M. VAN VLECK. (IX.)

Course XII. is elective for those who have taken Course V.

XIII. DESCRIPTIVE ASTRONOMY. A general course, requiring only elementary mathematics. *Tu., Th., at 9.* 26 O. H. PROFESSOR J. M. VAN VLECK. (VIII.)

Course XIII. is elective for those who have taken Course I., and is required of Scientific Sophomores.

XIV. SPHERICAL AND PRACTICAL ASTRONOMY. Campbell's Practical Astronomy, with practical exercises in the observatory. *Wed., Fri., at 12.* 26 O. H. PROFESSOR J. M. VAN VLECK. (V.)

Course XIV. is elective for those who have taken Courses V. and XIII.

Graduate Instruction.

Courses X. and XI. are designed primarily for graduate students. Courses VIII., IX., XII., and XIV. are intended for graduate students as well as for advanced undergraduates.

In addition, the following courses are given during the present year:—

XV. THEORY OF SUBSTITUTION GROUPS. *Mon. at 2, 6 S. C.; Wed. at 12, 26 O. H.* DR. LING.

XVI. THEORETICAL ASTRONOMY, based on Gauss' *Theoria Motus*. *Mon. at 10, 25 O. H.; Tu. at 12, 26 O. H.* PROFESSOR J. M. VAN VLECK.

PHYSICS.

PROFESSOR CRAWFORD; PROFESSOR ROSA.

I. ELEMENTARY PHYSICS. A general course, involving only elementary mathematics. Text-book, Hastings and Beach's General Physics. Mechanics, Hydrostatics, Pneumatics. *Mon., Fri., at 10 (first half-year)*. PROFESSOR ROSA. Heat, Sound, Light. *Mon., Wed., Fri., at 10 (second half-year)*. PROFESSOR CRAWFORD. 25 O. H. (III.)

Course I. is required of Classical Sophomores, and of Latin-Scientific Sophomores and Scientific Freshmen who did not pass in physics on admission to college.

II. ELEMENTARY ELECTRICITY. This course is parallel to Course I., the same text-book being used. In addition to the lecture experiments of this course, each student performs a considerable number of illustrative laboratory experiments, the work being done in the electrical laboratory. *Tu., Th., at 11*. 25 O. H. PROFESSOR ROSA. (X.)

Course II. is elective for those who take, or have taken, Course I.

III. ELEMENTARY PRACTICAL PHYSICS. This course is intended for those who purpose to teach physics, and also as an introductory course for those who expect to take further laboratory work. Those who also elect Course II. will have opportunity for work in the electrical laboratory. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (any two of these hours at the discretion of the student)*. PROFESSORS CRAWFORD AND ROSA.

Course III. is elective for those who take, or have taken, Course I.

IV.¹ SOUND. A course of lectures with extensive collateral readings. *Mon., Wed., at 12 (first half-year)*. 25 O. H. PROFESSOR CRAWFORD. (V.)

Course IV. is elective for those who have taken Course I.

V.¹ HEAT. A general treatment of the subject, with Maxwell's Theory of Heat as a text-book. *Th. at 9 (first half-year), counting as two exercises a week*. PHYSICAL READING-ROOM. PROFESSOR CRAWFORD. (VIII.)

Course V. is elective for those who have taken Course I.

VI.² THERMO-DYNAMICS. A continuation of Course V. *Th. at 9 (second half-year), counting as two exercises a week*. PHYSICAL READING-ROOM. PROFESSOR CRAWFORD. (VIII.)

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Course VI. is elective for those who have taken Course V. in physics, and have taken, or are taking, Course V. in mathematics.

[VII. LIGHT. Text-book, Emtage's Light. **Twice a week.* PROFESSOR CRAWFORD.]

Course VII. is elective for those who have taken Course I., and who take, or have taken, Course V. in mathematics. It is omitted the present year.

VIII. APPLIED ELECTRICITY. The course consists of lectures and of lessons from S. P. Thompson's Electricity and Magnetism, Part II. *Mon., Wed., at 11.* 25 O. H. PROFESSOR ROSA. (IV.)
Course VIII. is elective for those who have taken Course II.

IX. PRACTICAL PHYSICS. The experiments in this course involve careful measurements of the nature indicated in such manuals as those of Kohlrausch, Glazebrook and Shaw, Carhart and Patterson, and Stewart and Gee. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).*

Course IX. is elective for those who have taken Course II. or Course III.

X. PRACTICAL PHYSICS. A continuation of Course IX. In the department of electricity opportunity is afforded for some shop-work, and for extended investigation of the problems connected with transformers and with alternating currents in general. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).*

Course X. is elective for those who have taken Course IX.

Students taking Courses IV.-X. are advised to take, if they have not already taken, Course V. in mathematics.

XI. MATHEMATICAL THEORY OF ELECTRICITY. This course is based upon J. J. Thomson's Mathematical Theory of Electricity and Magnetism. *Tu., Th., at 9.* 25 O. H. PROFESSOR ROSA. (VIII.)

Course XI. is elective for those who have taken Course II. in physics and Course V. in mathematics.

[XII. ALTERNATING CURRENTS OF ELECTRICITY. A course on the theory of periodic currents and their practical applications. *Twice a week.* PROFESSOR ROSA.]

Course XII. is elective for those who have taken Course II. in physics and Course V. in mathematics. It is omitted the present year.

XIII. JOURNAL MEETING. The instructors of the department meet the graduate students and advanced undergraduates for the purpose of reporting and discussing articles from the current journals of general physics and electricity. *Th. at 12. 25 O. H.*

Graduate Instruction.

XIV. PHYSICAL SEMINARY. In this course special topics are chosen for more thorough and extended study than is possible in any of the other courses. The subject for the present year is: The Steam Engine and other Prime Movers. *Wed. at 10. 25 O. H.* PROFESSORS CRAWFORD AND ROSA. (III.)

Courses X.-XIII. are intended for graduates and advanced undergraduates, Course XIV. for graduates only.

CHEMISTRY.

PROFESSOR ATWATER; PROFESSOR BRADLEY; DR. BENEDICT.

I.¹ ELEMENTARY CHEMISTRY. This course is devoted to the elementary principles of the science. Each student performs a considerable number of experiments in the laboratory. *Tu., Wed., Th., at 10 (first half-year).* 3 J. H. PROFESSORS ATWATER AND BRADLEY. (IX.)

Course I. is required of Classical Sophomores, and of Latin-Scientific Sophomores and Scientific Freshmen who did not pass in chemistry on admission to college.

II.² ELEMENTARY CHEMISTRY; a continuation of Course I. A course of lectures on the general principles and some of the applications of chemistry. *Tu., Th., at 11 (second half-year).* 3 J. H. PROFESSOR ATWATER. (X.)

Course II. is elective for those who have taken Course I.

III. QUALITATIVE ANALYSIS. A practical course in basic, acid, and blow-pipe analysis. Lectures are given on the chemical problems involved in the detection of the more common metals. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week).* CHEM. LAB. PROFESSOR BRADLEY.

Course III. is elective for those who have taken Course I.

IV. QUANTITATIVE ANALYSIS. A practical course in quantitative analysis and special laboratory exercises adapted to the wants of individual students. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed.,*

Fri., at 2 (two or three exercises a week). CHEM. LAB. PROFESSOR ATWATER AND DR. BENEDICT.

Course IV. is elective for those who have taken Courses II. and III.

V. ORGANIC CHEMISTRY. Lectures and recitations. The principles of organic chemistry as illustrated by the derivatives of methane and benzene. *Mon., Wed., Fri., at 8.* 3 J. H. PROFESSOR BRADLEY. (I.)

Course V. is elective for those who have taken Course III.

VI.¹ PHYSIOLOGICAL CHEMISTRY. Lectures on selected chapters of physiological chemistry. Especial attention is given to the chemistry of the animal body. *Tu., Th., at 11 (first half-year).* 3 J. H. PROFESSOR ATWATER. (X.)

Course VI. is elective the present year for those who have taken Course I. Hereafter it will be elective for those who have taken Course II. It is desirable that those who elect it should also elect Course V.

VII. ORGANIC CHEMISTRY. A laboratory course in the preparation of compounds of carbon. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week).* CHEM. LAB. PROFESSOR BRADLEY.

Course VII. is elective for those who have taken Course III. It is desirable that this course be taken in connection with, or after, Course V.

VIII. PHYSIOLOGICAL CHEMISTRY. A laboratory course in the preparation of compounds of interest in physiological chemistry. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week).* CHEM. LAB. PROFESSOR ATWATER AND DR. BENEDICT.

Course VIII. is elective for those who have taken, or are taking, Courses V. and VI.

Courses VI. and VIII. are recommended to those who purpose to study medicine.

[IX. THEORETICAL CHEMISTRY. Lectures upon the origin, development, and present status of the theory of the atom and molecule. *Twice a week.* PROFESSOR BRADLEY.]

Course IX. is elective for those who have taken Course III. It is omitted the present year.

X.² CHEMISTRY OF THE SYNTHETIC DYES. A course of lectures on the synthesis and constitution of organic compounds as illustrated by the so-called anilin colors. *Twice a week (second half-year), the hours to be determined hereafter.* 3 J. H. DR. BENEDICT.

Course X. is elective for those who have taken Course V. during the first half-year.

*XI. CHEMICAL SEMINARY. A course of instruction and reading in biological chemistry. *Mon., Wed., at 8.* 3 J. H. PROFESSOR ATWATER. (I.)

Course XI. is elective, with the permission of the instructor, for those who take, or have taken, Courses V. and VI.

Graduate Instruction.

Course XI., although elective for undergraduates, is designed chiefly for graduates. Laboratory courses of research in physical, physiological, and organic chemistry may be arranged.

GEOLOGY.

PROFESSOR RICE.

I. ELEMENTARY GEOLOGY. A course of lectures, chiefly on dynamical and structural geology. Dana's Revised Text-book of Geology is recommended for reference. *Tu., Th., at 12.* 8 J. H. (XI.)

Course I. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores.

II.¹ DYNAMICAL AND STRUCTURAL GEOLOGY. Advanced course. Recitations and lectures, with Le Conte's Elements of Geology, and Dana's Revised Text-book of Geology, as text-books. Special topics for study, with bibliographical references, are assigned to each member of the class. Lectures on these topics by the members of the class are discussed and criticized. Excursions are taken on Saturdays during the fall. The phenomena observed in an excursion are discussed at the next meeting of the class, one of the members of the class generally giving a report or lecture. *Mon., Wed., Fri., at 12 (first half-year), counting as four exercises a week.* 8 J. H. (V.)

Course II. is elective for those who have taken Course I. It is very desirable, however, that those who take this course should also have taken the course in physical geography.

III.² HISTORICAL GEOLOGY AND PALEONTOLOGY. Recitations and lectures, with same text-books as in Course II. Lectures on special topics by members of the class, as in Course II. Excursions are taken on Saturdays during the spring (required only of those who take also Course II.). *Mon., Wed., Fri., at 12 (second half-year), counting as four exercises a week for those who take also Course II.* 8 J. H. (V.)

Course III. is elective for those who have taken Course I. It is very desirable, however, that those who take this course should also have taken the courses in zoölogy and botany.

IV.¹ PHYSICAL GEOGRAPHY. Recitations and lectures, with Tarr's Elementary Physical Geography as a text-book. *Mon., Fri., at 3 (first half-year).* 8 J. H. (VI.)

Course IV. (in connection with II. and III. Biology) is elective for Classical Sophomores, and is required of Latin-Scientific and Scientific Freshmen who did not pass in physical geography on admission to college.

[V.¹ MINERALOGY. Crystallography and optical mineralogy. Lectures and practical exercises. Dana's Text-book of Mineralogy is used for reference. *Three times a week (first half-year).*]

Course V. is elective for Classical and Latin-Scientific Juniors and Scientific Sophomores. It is omitted the present year.

[VI.² MINERALOGY. Determinative and descriptive mineralogy. Laboratory work in determinative mineralogy, lectures on descriptive mineralogy. Brush's Manual of Determinative Mineralogy, and Dana's Text-book of Mineralogy, are used for reference. *Three times a week (second half-year).*]

Course VI. is elective for those who have taken Course V. It is omitted the present year.

Graduate Instruction.

Courses II., III., V., and VI., although intended primarily for undergraduates, have often been taken by graduate students.

Additional work is provided for graduate students. This may include courses of reading in various branches of geological science, field-work, or laboratory work in mineralogy and lithology.

BIOLOGY.

PROFESSOR CONN.

I. PHYSIOLOGY. The instruction is given chiefly by lectures, Martin's Human Body being used as a text-book. Enough anatomy is given to render the physiological discussions intelligible, and enough hygiene to guide to an intelligent care of the body. *Mon., Wed., at 8.* 8 J. H. (I.)

Course I. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores.

II.¹ GENERAL BIOLOGY. This course is devoted to the study of the simpler laws of life, and the relations of animals and plants. Practical study is made of the earthworm, the frog, and some common plants, which are used as illustrating the general structure and physiology of animals and plants. This course is designed as an introduction to the study of botany, zoölogy, and physiology. *Wed., 2-4 (until March 1), two hours counting as one.* 8 J. H. (VI.)

Course II. (in connection with IV. Geology and III. Biology) is elective for Classical Sophomores, and is required of Latin-Scientific and Scientific Freshmen.

III.² BOTANY. This course is a continuation of Course II., and consists of lectures and recitations, and of a large amount of practical work. It includes the study of physiological, morphological, structural, and microscopic botany. The course begins with the study of cryptogams, followed by a study of phenogams. The last four weeks are devoted to the analysis and description of flowers. Atkinson's Elementary Botany is used as a text-book. *Mon., Wed., Fri., 2-4 (second half-year), two hours counting as one.* 8 J. H. (VI.)

Course III. (in connection with IV. Geology and II. Biology) is elective for Classical Sophomores, and is required of Latin-Scientific and Scientific Freshmen who did not pass in botany on admission to college.

IV. ZOÖLOGY. Lectures and recitations. Typical examples, illustrating the various groups of the animal kingdom, are studied, attention being given rather to the general laws governing living beings than to the systematic classification of species. The course includes the embryology of the various forms studied, as well as their adult anatomy. The last term is devoted to the study of comparative anatomy and general zoölogical problems. *Mon., Wed., at 9.* 8 J. H. (II.)

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n Courses I, II,

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ntific thought and
The heliocentric
the theory of evo-
ces, are among the
(*year*). II S. C.
(IX.)

PHYSICS AND COSMOLOGY.

VLECK; DR. LING.

year.

ents of Geometry.

Analytical Geom-
Tu., Th., Fri., at

9. 12 S. C. DR. LING. SECTION 2, *Mon., Tu., Th., Fri., at 10.*
 12 S. C. PROFESSOR E. B. VAN VLECK. SECTION 3, *Mon. at 12,*
 26 O. H.; *Tu., Th., Fri., at 12,* 12 S. C. DR. LING. (V.)

Course I. is required of Classical and Latin-Scientific Freshmen, and of Scientific Freshmen who did not pass in the advanced requirements in mathematics on admission to college.

II. ALGEBRA. Advanced course, principally in the theory of equations. *Tu., Th., at 11.* 26 O. H. DR. LING. (X.)

Course II. is elective for those who have taken Course I.

[III. TRIGONOMETRY. Advanced course, with applications to problems in surveying and astronomy. *Twice a week.* DR. LING.]

Course III. is elective for those who have taken Course I. It is omitted the present year.

IV. ANALYTICAL GEOMETRY. Advanced course, based upon C. Smith's Conic Sections, with an elementary introduction to solid geometry. *Wed., Fri., at 2.* 26 O. H. DR. LING. (VI.)

Course IV. is elective for those who have taken Course I.

V. DIFFERENTIAL AND INTEGRAL CALCULUS. Elementary course. *Tu., Th., Fri., at 12.* 26 O. H. PROFESSOR E. B. VAN VLECK.

Course V. is elective for those who have taken Course I. (XI.)

Courses II., IV., and V. are necessary for those who purpose to pursue advanced courses in pure mathematics; Course V. is necessary for those intending to pursue advanced courses in physics and other branches of applied mathematics.

VI. DIFFERENTIAL EQUATIONS, based on Murray's Treatise on Differential Equations. *Tu., Th., at 8.* 26 O. H. PROFESSOR E. B. VAN VLECK. (VII.)

Course VI. is elective for those who have taken Course V.

[VII. ANALYTICAL GEOMETRY OF THREE DIMENSIONS, including especially a study of mathematical models. *Twice a week.* PROFESSOR J. M. VAN VLECK.]

Course VII. is elective for those who have taken Course IV., and who take, or have taken, Course V. It is omitted the present year.

VIII. PROJECTIVE GEOMETRY. *Tu. at 2:30; Fri. at 9.* 26 O. H. PROFESSOR E. B. VAN VLECK. (XII.)

Course VIII. is elective for those who have taken Course IV. or Course V.

HISTORY.

ASSOCIATE PROFESSOR FARRAND; ASSOCIATE PROFESSOR PATON.

I. OUTLINES OF GENERAL HISTORY. European history, from the time of the German migrations to the outbreak of the French Revolution, with an introductory survey of ancient oriental and classical history. Ploetz' *Epitome of Universal History* (Tillinghast's translation) and Adams' *European History*; lectures and recitations. *Mon., Wed., at 9.* L. CH. PROFESSOR FARRAND. (II.)

Course I. is elective for Sophomores.

II. GREEK HISTORY. Especial attention is given to the course of Greek civilization, and to the more important forms of government in the Greek states. *Tu., Th., at 2.* 3 S. C. PROFESSOR PATON.

Course II. is elective for Juniors.

[III.¹ HISTORY OF FRANCE. A sketch of French history from the election of Hugh Capet to the beginning of the Revolution in 1789. Adams' *Growth of the French Nation* is used as a text-book, supplemented by lectures and collateral reading. *Twice a week (first half-year).* PROFESSOR FARRAND.]

Course III. is elective for those who have taken Course I. It is omitted the present year.

[IV.² MODERN EUROPEAN HISTORY. The French Revolution is the central subject of the first part of this course, followed by a sketch of the history of modern Europe to the close of the Franco-Prussian war. Text-book, collateral reading, lectures, and recitations. *Twice a week (second half-year).* PROFESSOR FARRAND.]

Course IV. is elective for those who have taken Course I. or Course III. It is omitted the present year.

V. HISTORY OF ENGLAND. English history, from the time of the Anglo-Saxon invasions to the middle of the present century. Gardiner's *History of England*, Colby's *Selections from the Sources of English History*; collateral reading, lectures, and recitations. *Tu., Th., at 12.* L. CH. PROFESSOR FARRAND. (XI.)

Course V. is elective for Juniors who take, or have taken, Course I.

VI. UNITED STATES HISTORY. The history of the United States from the Revolution to the Civil War. Hart's *Formation of the Union*, Wilson's *Division and Reunion*, MacDonald's *Select Documents of United States History*; collateral reading, investigation of

assigned topics, lectures, recitations, and discussion of documents.
Tu., Th., at 8. L. CH. 2. PROFESSOR FARRAND. (VII.)

Course VI. is elective for Juniors who take, or have taken, Course I.

[VII. EUROPEAN GOVERNMENTS. The governments of the more important state systems of Europe, especially England, France, Germany, and Switzerland, in their origin and present working, are treated in this course. Wilson's State (revised edition) is used as a text-book, supplemented by lectures and collateral readings, with some discussion of the present political situation in the states under consideration. *Twice a week.* PROFESSOR FARRAND.]

Course VII. is elective for those who have taken Course I. It is omitted the present year.

VIII.¹ UNITED STATES GOVERNMENT. The United States Government, state as well as federal, is studied, and the course includes a consideration of some of the more important practical political questions of the day. Bryce's American Commonwealth (abridged edition); collateral reading, lectures, and recitations. *Mon., Wed., at 3 (first half-year).* L. CH. 2. PROFESSOR FARRAND. (VI.)

Course VIII. is elective for Juniors.

IX.² HISTORICAL SEMINARY. The subject for the present year is: Slavery in the United States. *Mon., 7-9 p. m. (second half-year), counting as two exercises a week.* 10 O. H. PROFESSOR FARRAND.

Course IX. is elective for Seniors who take, or have taken, Course VI., and who have received honor grades in the courses they have taken in history. Others are admitted only by special permission of the instructor.

ECONOMICS AND SOCIAL SCIENCE.

PROFESSOR FISHER.

I. PRINCIPLES OF ECONOMIC SCIENCE. General introductory course. Recitations and discussions on the basis of Gide's Principles of Political Economy. *Mon., Wed., at 11.* 12 S. C. (IV.)

Course I. is required in the Junior or Senior year; with the permission of the instructor, it may be taken by Sophomores.

[II. ADVANCED ECONOMICS. This course includes a brief historical view, on the basis of Ingram's History of Political Economy, and critical studies of the theories of value and distribution. *Twice a week.*]

Course II. is elective for those who have taken Course I. It is omitted the present year.

III. PUBLIC FINANCE. The economy of the state:—revenues from taxation, from government industries, and from other sources; the contraction, administration, conversion, and liquidation of public debts; government expenditures, their social and industrial effects. The work of this course is based on Bastable's Public Finance; a number of lectures are also given, and references are made to standard authorities. *Mon., Wed., at 12.* L. CH. 2. (V.)

Course III. is elective for those who have taken Course I. Courses II. and III. are given in alternate years, Course II. being omitted the present year.

IV. MONEY AND BANKING. A course of lectures on the general principles and history of monetary and banking institutions, on the social and industrial aspects of the present monetary situation, and on the various schemes for reform. *Tu., Th., at 9.* L. CH. 2. (VIII.)

Course IV. is elective for those who have taken Course I.

[V. THE GENERAL LABOR PROBLEM. A course of lectures on the nature, causes, and justification of the present social discontent, and on such suggested remedies as moral elevation, charity, education, provident institutions, labor organizations, strikes, conciliation and arbitration, labor legislation, improved wage systems, profit-sharing, coöperation, nationalization of the land, socialism, communism, anarchism. *Twice a week.*]

Course V. is elective for those who have taken Course I. Courses IV. and V. are given in alternate years, Course V. being omitted the present year.

[VI. SOCIOLOGY. A discussion of the fundamental principles of social organization, and the conditions and forms of social progress. *Twice a week.*]

Course VI. is elective for those who take, or have taken, Course I. It is omitted the present year.

VII. SOCIAL SCIENCE. An examination of certain concrete social problems of the present:—pauperism and charity; the defective and criminal classes. The class-room work is supplemented by visits to several of the charitable, penal, and reformatory institutions in and about Middletown. *Tu., Th., at 11.* II S. C. (X.)

Course VII. is elective for those who take, or have taken, Course I. Courses VI. and VII. are given in alternate years, Course VI. being omitted the present year.

*VIII. ECONOMIC SEMINARY. Each member of the seminary takes for private individual investigation, under the direction of the instructor, some problem in economics, finance, statistics, or social science, and week by week reports in class on progress made and obstacles met. At the close of the year the work is brought together in a final report or thesis. *Tu., 3-5, counting as two exercises a week.* 14 O. H. (XII.)

Course VIII. is elective, with the permission of the instructor, for those who, having received first or second grade in Course I., take any three of the Courses III.-VII.

Graduate Instruction.

Course VIII. is intended primarily for graduate students, but is open also to such undergraduates of the Senior year as are making special studies in the department. Courses II.-VII., while intended primarily for undergraduates, may also be taken with advantage by graduates who have studied only the principles of economic science.

PHILOSOPHY.

† PROFESSOR ARMSTRONG; ASSOCIATE PROFESSOR DODGE.

I.² LOGIC. Jevons-Hill's Elements of Logic. An elementary course in the fundamental forms of reasoned thinking, deductive and inductive alike. The study of the text-book is illustrated by numerous examples in logical praxis. SECTION I, *Wed., Fri., at 9*; SECTION 2, *Wed., Fri., at 3 (second half-year).* 11 S. C. (II.)

Course I. is required of Sophomores.

II.¹ PSYCHOLOGY. Sully's Outlines of Psychology, with references to other authorities. Lectures and discussions are used to supplement the text-book. These are introduced especially in explanation of the more recent psychological discussions, and of positions still under debate. *Mon., Wed., Fri., at 10 (first half-year).* 11 S. C. (III.)

Course II. is required of Juniors.

III. PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY. Ladd's Outlines of Physiological Psychology. The course begins with a

† Absent for the year.

discussion of the physical basis of mind, but more than half of the time is devoted to the study of the chief experimental methods and results. Frequent lectures and experimental demonstrations are given, in addition to the study of the text-book. *Tu., Th., at 3.*
7 S. C. (XII.)

Course III. is elective for Juniors.

IV.¹ ADVANCED LOGIC. Hibben's Inductive Logic. The course opens with several lectures on the history of logic. In connection with the text-book, special attention is given to the discussion of the principles of induction and scientific method and to the criticism of concrete cases of scientific inference. *Tu., Th., at 10 (first half-year).* 7 S. C. (IX.)

Course IV. is elective for Juniors.

[V.¹ INTRODUCTION TO PHILOSOPHY. Lectures and recitations, with references to the Introductions of Stuckenborg, Ladd, and Külpe. *Once a week (first half-year).*]

Course V. may not be elected by itself. It must be combined either with Course IV. or with Course VI. It is omitted the present year.

VI.² ANCIENT AND MEDIÆVAL PHILOSOPHY. Zeller's Outlines of Greek Philosophy, with references to Schwegler, Zeller's larger work, and other authorities; lectures and discussions. *Tu., Th., at 11 (second half-year).* 11 S. C. (X.)

Course VI. is elective, under ordinary circumstances, for those who have taken Course IV. or Course V.

VII.¹ MODERN PHILOSOPHY FROM THE RENAISSANCE TO KANT. Falckenberg's History of Modern Philosophy; lectures, recitations, discussions, and references to other standard histories of philosophy. *Wed., Fri., at 11 (first half-year).* 3 S. C. (IV.)

Course VII. is elective, under ordinary circumstances, for those who have taken Course VI.

VIII.² MODERN PHILOSOPHY FROM KANT TO THE PRESENT TIME. Falckenberg's History of Modern Philosophy; lectures, recitations, discussions, and references to other authorities. *Wed., Fri., at 11 (second half-year).* 3 S. C. (IV.)

Course VIII. is elective for those who have taken Course VII.

[IX. ADVANCED PSYCHOLOGY. The object of this course is the discussion of important selected topics in systematic psychology. The views of leading thinkers are presented in lectures, and in reports by members of the class, and these views are subjected to comparative and independent criticism. *Once a week.*]

Course IX. is elective for those who have taken Course III., or for those who have received first or second grade in Course II. It is omitted the present year.

[* X. LABORATORY COURSE IN PSYCHOLOGY. Experimental study of special problems. *Once a week.*]

Course X. is elective, with the permission of the instructor, for those who have taken Courses II. and III. It is omitted the present year.

XI.¹ READINGS IN MODERN PHILOSOPHY. In this course, representative works of leading thinkers of the first half of the modern period are read and discussed. Special attention is given to selections from Descartes, Locke, Berkeley, and Hume. *Twice a week (first half-year).*]

Course XI. is elective for those who are taking Course VII. It is omitted the present year.

[XII.² METAPHYSICS. Selections from Kant's works and from Lotze's Metaphysics. Class readings and discussions. Topical reports and theses may also be required. *Three times a week (second half-year).*]

Course XII. is elective for those who are taking Course VIII. It is omitted the present year.

Graduate Instruction.

[XIII. GRADUATE SEMINARY. The philosophy of Kant, as given in the Critiques of Pure Reason, Judgment, and Practical Reason. *Once a week.*]

Course XIII. is omitted the present year.

Course XIII. is intended for graduate students, Courses IX.-XII. for advanced undergraduates and graduates. Special courses under the direction of the instructors of the department may be arranged in advanced experimental and theoretical psychology, historical philosophy, and metaphysics.

ETHICS AND RELIGION.

PRESIDENT RAYMOND; PROFESSOR RICE.

I.¹ **ETHICS.** A course of lectures on theoretical and practical ethics. The course begins with a brief historical survey of modern ethical theories, and the lectures are supplemented by theses and collateral reading. *Wed., Fri., at 10 (first half-year).* L. CH. PRESIDENT RAYMOND. (III.)

Course I. is required of Seniors.

II.² **EVIDENCES OF CHRISTIANITY.** Lectures, with collateral readings on all the important topics. *Wed., Fri., at 10 (second half-year).* L. CH. PRESIDENT RAYMOND. (III.)

Course II. is required of Seniors.

III.² **THEISM.** Instruction is given by lectures, supplemented by collateral readings and class discussions. The purpose of the course is to discover essential religious phenomena, to test the various historic theories offered in explanation of these phenomena, and to find a philosophic basis for faith. *Tu., Th., at 12 (second half-year).* 6 S. C. PRESIDENT RAYMOND. (XI.)

Course III. is elective for those who have taken Courses I., II., V.-VII. in philosophy.

IV.² **RELATIONS OF SCIENCE AND RELIGION.** A course of lectures on the history of important advances in scientific thought and their bearing upon theistic and Christian belief. The heliocentric astronomy, the antiquity of the earth and of man, the theory of evolution, and the correlation of physical and vital forces, are among the topics discussed. *Tu., Th., at 10 (second half-year).* 11 S. C. PROFESSOR RICE. (IX.)

Course IV. is elective for Juniors.

MATHEMATICS AND ASTRONOMY.

PROFESSOR J. M. VAN VLECK; PROFESSOR E. B. VAN VLECK; DR. LING.

I. **PLANE TRIGONOMETRY.** *First third of the year.*

SOLID GEOMETRY. Phillips and Fisher's Elements of Geometry. *Second third of the year.*

ANALYTICAL GEOMETRY. Bailey and Woods' Analytical Geometry. *Last third of the year.* SECTION I, *Mon., Tu., Th., Fri., at*

9. 12 S. C. DR. LING. SECTION 2, *Mon., Tu., Th., Fri., at 10.*
 12 S. C. PROFESSOR E. B. VAN VLECK. SECTION 3, *Mon. at 12,*
 26 O. H.; *Tu., Th., Fri., at 12,* 12 S. C. DR. LING. (V.)

Course I. is required of Classical and Latin-Scientific Freshmen, and of Scientific Freshmen who did not pass in the advanced requirements in mathematics on admission to college.

II. ALGEBRA. Advanced course, principally in the theory of equations. *Tu., Th., at 11.* 26 O. H. DR. LING. (X.)

Course II. is elective for those who have taken Course I.

[III. TRIGONOMETRY. Advanced course, with applications to problems in surveying and astronomy. *Twice a week.* DR. LING.]

Course III. is elective for those who have taken Course I. It is omitted the present year.

IV. ANALYTICAL GEOMETRY. Advanced course, based upon C. Smith's Conic Sections, with an elementary introduction to solid geometry. *Wed., Fri., at 2.* 26 O. H. DR. LING. (VI.)

Course IV. is elective for those who have taken Course I.

V. DIFFERENTIAL AND INTEGRAL CALCULUS. Elementary course. *Tu., Th., Fri., at 12.* 26 O. H. PROFESSOR E. B. VAN VLECK.

Course V. is elective for those who have taken Course I. (XI.)

Courses II., IV., and V. are necessary for those who purpose to pursue advanced courses in pure mathematics; Course V. is necessary for those intending to pursue advanced courses in physics and other branches of applied mathematics.

VI. DIFFERENTIAL EQUATIONS, based on Murray's Treatise on Differential Equations. *Tu., Th., at 8.* 26 O. H. PROFESSOR E. B. VAN VLECK. (VII.)

Course VI. is elective for those who have taken Course V.

[VII. ANALYTICAL GEOMETRY OF THREE DIMENSIONS, including especially a study of mathematical models. *Twice a week.* PROFESSOR J. M. VAN VLECK.]

Course VII. is elective for those who have taken Course IV., and who take, or have taken, Course V. It is omitted the present year.

VIII. PROJECTIVE GEOMETRY. *Tu. at 2:30; Fri. at 9.* 26 O. H. PROFESSOR E. B. VAN VLECK. (XII.)

Course VIII. is elective for those who have taken Course IV. or Course V.

[IX. THEORY OF FUNCTIONS. Elementary course. *Twice a week.*
PROFESSOR E. B. VAN VLECK.]

Course IX. is elective for those who have taken Course V. It is omitted the present year.

X. THEORY OF FUNCTIONS, in continuation of Course IX. *Mon. at 12, 11 S. C.; Wed. at 9, 26 O. H.* PROFESSOR E. B. VAN VLECK. (V.)

Course X. is elective for those who have taken Course IX.

XI. ELLIPTIC FUNCTIONS. *Wed., Fri., at 11.* 26 O. H. PROFESSOR J. M. VAN VLECK. (IV.)

Course XI. is elective for those who have taken Course IX.

XII. THEORETICAL MECHANICS. *Tu., Th., at 10.* 26 O. H. PROFESSOR J. M. VAN VLECK. (IX.)

Course XII. is elective for those who have taken Course V.

XIII. DESCRIPTIVE ASTRONOMY. A general course, requiring only elementary mathematics. *Tu., Th., at 9.* 26 O. H. PROFESSOR J. M. VAN VLECK. (VIII.)

Course XIII. is elective for those who have taken Course I., and is required of Scientific Sophomores.

XIV. SPHERICAL AND PRACTICAL ASTRONOMY. Campbell's Practical Astronomy, with practical exercises in the observatory. *Wed., Fri., at 12.* 26 O. H. PROFESSOR J. M. VAN VLECK. (V.)

Course XIV. is elective for those who have taken Courses V. and XIII.

Graduate Instruction.

Courses X. and XI. are designed primarily for graduate students. Courses VIII., IX., XII., and XIV. are intended for graduate students as well as for advanced undergraduates.

In addition, the following courses are given during the present year:—

XV. THEORY OF SUBSTITUTION GROUPS. *Mon. at 2, 6 S. C.; Wed. at 12, 26 O. H.* DR. LING.

XVI. THEORETICAL ASTRONOMY, based on Gauss' *Theoria Motus*. *Mon. at 10, 25 O. H.; Tu. at 12, 26 O. H.* PROFESSOR J. M. VAN VLECK.

PHYSICS.

PROFESSOR CRAWFORD; PROFESSOR ROSA.

I. ELEMENTARY PHYSICS. A general course, involving only elementary mathematics. Text-book, Hastings and Beach's General Physics. Mechanics, Hydrostatics, Pneumatics. *Mon., Fri., at 10 (first half-year)*. PROFESSOR ROSA. Heat, Sound, Light. *Mon., Wed., Fri., at 10 (second half-year)*. PROFESSOR CRAWFORD. 25 O. H. (III.)

Course I. is required of Classical Sophomores, and of Latin-Scientific Sophomores and Scientific Freshmen who did not pass in physics on admission to college.

II. ELEMENTARY ELECTRICITY. This course is parallel to Course I., the same text-book being used. In addition to the lecture experiments of this course, each student performs a considerable number of illustrative laboratory experiments, the work being done in the electrical laboratory. *Tu., Th., at 11*. 25 O. H. PROFESSOR ROSA. (X.)

Course II. is elective for those who take, or have taken, Course I.

III. ELEMENTARY PRACTICAL PHYSICS. This course is intended for those who purpose to teach physics, and also as an introductory course for those who expect to take further laboratory work. Those who also elect Course II. will have opportunity for work in the electrical laboratory. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (any two of these hours at the discretion of the student)*. PROFESSORS CRAWFORD AND ROSA.

Course III. is elective for those who take, or have taken, Course I.

IV.¹ SOUND. A course of lectures with extensive collateral readings. *Mon., Wed., at 12 (first half-year)*. 25 O. H. PROFESSOR CRAWFORD. (V.)

Course IV. is elective for those who have taken Course I.

V.¹ HEAT. A general treatment of the subject, with Maxwell's Theory of Heat as a text-book. *Th. at 9 (first half-year), counting as two exercises a week*. PHYSICAL READING-ROOM. PROFESSOR CRAWFORD. (VIII.)

Course V. is elective for those who have taken Course I.

VI.² THERMO-DYNAMICS. A continuation of Course V. *Th. at 9 (second half-year), counting as two exercises a week*. PHYSICAL READING-ROOM. PROFESSOR CRAWFORD. (VIII.)

Course VI. is elective for those who have taken Course V. in physics, and have taken, or are taking, Course V. in mathematics.

[VII. LIGHT. Text-book, Emtage's Light. *Twice a week.* PROFESSOR CRAWFORD.]

Course VII. is elective for those who have taken Course I., and who take, or have taken, Course V. in mathematics. It is omitted the present year.

VIII. APPLIED ELECTRICITY. The course consists of lectures and of lessons from S. P. Thompson's Electricity and Magnetism, Part II. *Mon., Wed., at 11. 25 O. H.* PROFESSOR ROSA. (IV.)

Course VIII. is elective for those who have taken Course II.

IX. PRACTICAL PHYSICS. The experiments in this course involve careful measurements of the nature indicated in such manuals as those of Kohlrausch, Glazebrook and Shaw, Carhart and Patterson, and Stewart and Gee. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).*

Course IX. is elective for those who have taken Course II. or Course III.

X. PRACTICAL PHYSICS. A continuation of Course IX. In the department of electricity opportunity is afforded for some shop-work, and for extended investigation of the problems connected with transformers and with alternating currents in general. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).*

Course X. is elective for those who have taken Course IX.

Students taking Courses IV.-X. are advised to take, if they have not already taken, Course V. in mathematics.

XI. MATHEMATICAL THEORY OF ELECTRICITY. This course is based upon J. J. Thomson's Mathematical Theory of Electricity and Magnetism. *Tu., Th., at 9. 25 O. H.* PROFESSOR ROSA. (VIII.)

Course XI. is elective for those who have taken Course II. in physics and Course V. in mathematics.

[XII. ALTERNATING CURRENTS OF ELECTRICITY. A course on the theory of periodic currents and their practical applications. *Twice a week.* PROFESSOR ROSA.]

Course XII. is elective for those who have taken Course II. in physics and Course V. in mathematics. It is omitted the present year.

XIII. JOURNAL MEETING. The instructors of the department meet the graduate students and advanced undergraduates for the purpose of reporting and discussing articles from the current journals of general physics and electricity. *Th. at 12.* 25 O. H.

Graduate Instruction.

XIV. PHYSICAL SEMINARY. In this course special topics are chosen for more thorough and extended study than is possible in any of the other courses. The subject for the present year is: The Steam Engine and other Prime Movers. *Wed. at 10.* 25 O. H. PROFESSORS CRAWFORD AND ROSA. (III.)

Courses X.-XIII. are intended for graduates and advanced undergraduates, Course XIV. for graduates only.

CHEMISTRY.

PROFESSOR ATWATER; PROFESSOR BRADLEY; DR. BENEDICT.

I.¹ ELEMENTARY CHEMISTRY. This course is devoted to the elementary principles of the science. Each student performs a considerable number of experiments in the laboratory. *Tu., Wed., Th., at 10 (first half-year).* 3 J. H. PROFESSORS ATWATER AND BRADLEY. (IX.)

Course I. is required of Classical Sophomores, and of Latin-Scientific Sophomores and Scientific Freshmen who did not pass in chemistry on admission to college.

II.² ELEMENTARY CHEMISTRY; a continuation of Course I. A course of lectures on the general principles and some of the applications of chemistry. *Tu., Th., at 11 (second half-year).* 3 J. H. PROFESSOR ATWATER. (X.)

Course II. is elective for those who have taken Course I.

III. QUALITATIVE ANALYSIS. A practical course in basic, acid, and blow-pipe analysis. Lectures are given on the chemical problems involved in the detection of the more common metals. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week).* CHEM. LAB. PROFESSOR BRADLEY.

Course III. is elective for those who have taken Course I.

IV. QUANTITATIVE ANALYSIS. A practical course in quantitative analysis and special laboratory exercises adapted to the wants of individual students. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed.,*

Fri., at 2 (two or three exercises a week). CHEM. LAB. PROFESSOR ATWATER AND DR. BENEDICT.

Course IV. is elective for those who have taken Courses II. and III.

V. ORGANIC CHEMISTRY. Lectures and recitations. The principles of organic chemistry as illustrated by the derivatives of methane and benzene. *Mon., Wed., Fri., at 8.* 3 J. H. PROFESSOR BRADLEY. (I.)

Course V. is elective for those who have taken Course III.

VI.¹ PHYSIOLOGICAL CHEMISTRY. Lectures on selected chapters of physiological chemistry. Especial attention is given to the chemistry of the animal body. *Tu., Th., at 11 (first half-year).* 3 J. H. PROFESSOR ATWATER. (X.)

Course VI. is elective the present year for those who have taken Course I. Hereafter it will be elective for those who have taken Course II. It is desirable that those who elect it should also elect Course V.

VII. ORGANIC CHEMISTRY. A laboratory course in the preparation of compounds of carbon. Each exercise occupies 2½ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week).* CHEM. LAB. PROFESSOR BRADLEY.

Course VII. is elective for those who have taken Course III. It is desirable that this course be taken in connection with, or after, Course V.

VIII. PHYSIOLOGICAL CHEMISTRY. A laboratory course in the preparation of compounds of interest in physiological chemistry. Each exercise occupies 2½ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week).* CHEM. LAB. PROFESSOR ATWATER AND DR. BENEDICT.

Course VIII. is elective for those who have taken, or are taking, Courses V. and VI.

Courses VI. and VIII. are recommended to those who purpose to study medicine.

[IX. THEORETICAL CHEMISTRY. Lectures upon the origin, development, and present status of the theory of the atom and molecule. *Twice a week.* PROFESSOR BRADLEY.]

Course IX. is elective for those who have taken Course III. It is omitted the present year.

X.² CHEMISTRY OF THE SYNTHETIC DYES. A course of lectures on the synthesis and constitution of organic compounds as illustrated by the so-called anilin colors. *Twice a week (second half-year), the hours to be determined hereafter.* 3 J. H. DR. BENEDICT.

Course X. is elective for those who have taken Course V. during the first half-year.

***XI. CHEMICAL SEMINARY.** A course of instruction and reading in biological chemistry. *Mon., Wed., at 8.* 3 J. H. PROFESSOR ATWATER. (I.)

Course XI. is elective, with the permission of the instructor, for those who take, or have taken, Courses V. and VI.

Graduate Instruction.

Course XI., although elective for undergraduates, is designed chiefly for graduates. Laboratory courses of research in physical, physiological, and organic chemistry may be arranged.

GEOLOGY.

PROFESSOR RICE.

I. ELEMENTARY GEOLOGY. A course of lectures, chiefly on dynamical and structural geology. Dana's Revised Text-book of Geology is recommended for reference. *Tu., Th., at 12.* 8 J. H. (XI.)

Course I. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores.

II.² DYNAMICAL AND STRUCTURAL GEOLOGY. Advanced course. Recitations and lectures, with Le Conte's Elements of Geology, and Dana's Revised Text-book of Geology, as text-books. Special topics for study, with bibliographical references, are assigned to each member of the class. Lectures on these topics by the members of the class are discussed and criticized. Excursions are taken on Saturdays during the fall. The phenomena observed in an excursion are discussed at the next meeting of the class, one of the members of the class generally giving a report or lecture. *Mon., Wed., Fri., at 12 (first half-year), counting as four exercises a week.* 8 J. H. (V.)

Course II. is elective for those who have taken Course I. It is very desirable, however, that those who take this course should also have taken the course in physical geography.

III.² HISTORICAL GEOLOGY AND PALEONTOLOGY. Recitations and lectures, with same text-books as in Course II. Lectures on special topics by members of the class, as in Course II. Excursions are taken on Saturdays during the spring (required only of those who take also Course II.). *Mon., Wed., Fri., at 12 (second half-year), counting as four exercises a week for those who take also Course II.* 8 J. H. (V.)

Course III. is elective for those who have taken Course I. It is very desirable, however, that those who take this course should also have taken the courses in zoölogy and botany.

IV.¹ PHYSICAL GEOGRAPHY. Recitations and lectures, with Tarr's Elementary Physical Geography as a text-book. *Mon., Fri., at 3 (first half-year).* 8 J. H. (VI.)

Course IV. (in connection with II. and III. Biology) is elective for Classical Sophomores, and is required of Latin-Scientific and Scientific Freshmen who did not pass in physical geography on admission to college.

[V.¹ MINERALOGY. Crystallography and optical mineralogy. Lectures and practical exercises. Dana's Text-book of Mineralogy is used for reference. *Three times a week (first half-year).*]

Course V. is elective for Classical and Latin-Scientific Juniors and Scientific Sophomores. It is omitted the present year.

[VI.² MINERALOGY. Determinative and descriptive mineralogy. Laboratory work in determinative mineralogy, lectures on descriptive mineralogy. Brush's Manual of Determinative Mineralogy, and Dana's Text-book of Mineralogy, are used for reference. *Three times a week (second half-year).*]

Course VI. is elective for those who have taken Course V. It is omitted the present year.

Graduate Instruction.

Courses II., III., V., and VI., although intended primarily for undergraduates, have often been taken by graduate students.

Additional work is provided for graduate students. This may include courses of reading in various branches of geological science, field-work, or laboratory work in mineralogy and lithology.

BIOLOGY.

PROFESSOR CONN.

I. **PHYSIOLOGY.** The instruction is given chiefly by lectures, Martin's Human Body being used as a text-book. Enough anatomy is given to render the physiological discussions intelligible, and enough hygiene to guide to an intelligent care of the body. *Mon., Wed., at 8.* 8 J. H. (I.)

Course I. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores.

II.¹ **GENERAL BIOLOGY.** This course is devoted to the study of the simpler laws of life, and the relations of animals and plants. Practical study is made of the earthworm, the frog, and some common plants, which are used as illustrating the general structure and physiology of animals and plants. This course is designed as an introduction to the study of botany, zoölogy, and physiology. *Wed., 2-4 (until March 1), two hours counting as one.* 8 J. H. (VI.)

Course II. (in connection with IV. Geology and III. Biology) is elective for Classical Sophomores, and is required of Latin-Scientific and Scientific Freshmen.

III.² **BOTANY.** This course is a continuation of Course II., and consists of lectures and recitations, and of a large amount of practical work. It includes the study of physiological, morphological, structural, and microscopic botany. The course begins with the study of cryptogams, followed by a study of phenogams. The last four weeks are devoted to the analysis and description of flowers. Atkinson's Elementary Botany is used as a text-book. *Mon., Wed., Fri., 2-4 (second half-year), two hours counting as one.* 8 J. H. (VI.)

Course III. (in connection with IV. Geology and II. Biology) is elective for Classical Sophomores, and is required of Latin-Scientific and Scientific Freshmen who did not pass in botany on admission to college.

IV. **ZOÖLOGY.** Lectures and recitations. Typical examples, illustrating the various groups of the animal kingdom, are studied, attention being given rather to the general laws governing living beings than to the systematic classification of species. The course includes the embryology of the various forms studied, as well as their adult anatomy. The last term is devoted to the study of comparative anatomy and general zoölogical problems. *Mon., Wed., at 9.* 8 J. H. (II.)

Course IV. is elective for Classical Juniors and for Latin-Scientific and Scientific Sophomores.

V. PRACTICAL BIOLOGY. The design of the course in practical biology is to furnish opportunity for special biological work along such lines as may be best adapted to the future plans of the student. Seniors intending to study medicine devote their attention largely to physiology, histology, and the dissection of some mammal. Those desiring a more general course make a brief examination of various groups of the animal and vegetable kingdoms.

Those electing the study for two years spend the first year in the study of biology in general, making a careful study of illustrative types of the different groups of the animal and vegetable kingdoms, such as amoeba, infusoria, hydra, earthworm, bacteria, yeast, mould, lichens, mosses, flowering plant, etc. The laboratory work is planned to illustrate as far as possible, the principles of biology, comparative anatomy, and embryology. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week)*. BIOL. LAB.

Course V. is elective for Juniors.

VI. PRACTICAL BIOLOGY. Advanced course. The second year is devoted to the study of histology, bacteriology, embryology, and mammalian anatomy. During the second half-year each student pursues some special work assigned by the instructor. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week)*. BIOL. LAB.

Course VI. is elective for those who have taken Course V.

A course of weekly lectures on histology is given during the present year to those electing Course VI.

[VII.¹ EVOLUTION. A course of lectures and recitations, giving an outline of the general theory of evolution. *Twice a week (first half-year).*]

Course VII. is elective for Juniors. It is omitted the present year.

VIII.¹ BACTERIOLOGY. A course of lectures giving the history of bacteriology and the present state of our knowledge of the subject. *Tu., Th., at 8 (first half-year)*. 8 J. H. (VII.)

Course VIII. is elective for Juniors.

Courses VII. and VIII. are given in alternate years, Course VII. being omitted the present year.

Candidates for special honors in biology are especially recommended to take at least one summer course in the marine laboratory at Cold Spring Harbor.

Graduate Instruction.

Courses VI. and VIII., although elective for undergraduates, are designed also for such graduates as have not already specialized in biology.

Graduate courses of research are provided, consisting mainly of laboratory work, accompanied by collateral reading.

DAILY PROGRAM.

The order of lectures and recitations is set forth in the table given on pages 70 and 71. In that table the sign * indicates that an exercise occurs only occasionally, the particular days to be announced by the instructor. Roman numerals preceding the names of certain studies refer to the numbers of the courses as enumerated in the foregoing statement of courses of instruction. Arabic numerals, following the names of certain studies, indicate the sections into which the classes are divided.



EXAMINATION GROUPS.

No student is allowed to take more than one course in any of these groups, with the exception of those (bracketed together) which are not given in the same half-year. The following courses are not assigned to any group, and they may be elected without limitation: VI. Latin; III. German; III. French; II., IX. History; XV., XVI. Mathematics; III., IX., X. Physics; III., IV., VII., VIII., X. Chemistry; V., VI. Biology.

I.—*M., W., F., at 8.*

V. Greek.

I. German.

I. French.

IV. English Literature, *W.*

{ II. English Language, *W., F.*

{ III. English Language, *W., F.*

V. Chemistry.

XI. Chemistry, *M., W.*

Physiology, *M., W.*

II.—*M., W., F., at 9.*

I. Latin, *also Th.*

XI. Latin, *W., F.*

VI. French, *F.*

Italian, *M., W.*

II. English Literature.

* I. History, *M., W.*

Logic, *W., F.*

Zoölogy, *M., W.*

III.—*M., W., F., at 10.*

I. Greek, *T., W., Th., F.*

Psychology.

{ Ethics, *W., F.*

{ Evidences, *W., F.*

I. Physics.

XIV. Physics, *W.*

IV.—*M., W., F., at 11.*

II. German.

I. Economics, *M., W.*

{ VII. Philosophy, *W., F.*

{ VIII. Philosophy, *W., F.*

XI. Mathematics, *W., F.*

VIII. Physics, *M., W.*

V.—*M., W., F., at 12.*

XII. Latin, *M., W.*

VIII. Greek, *F.*

I. English Literature, *M., W.*

III. Economics, *M., W.*

I. Mathematics, *M., T., Th., F.*

X. Mathematics, *M., also W.*

at 9.

XIV. Mathematics, *W., F.*

IV. Physics.

{ II. Geology.

{ III. Geology.

* May be elected with Logic.

- VI.—*M., W., F., at 3.*
 IV. German, *M.*
 * VI. German, *W.*
 VII. English Language, *F.*
 † X. English Language, *M.*
 VIII. History, *M., W.*
 IV. Mathematics, *W., F. (at 2).*
 { Physical Geography, *M., F.*
 { Botany, *M., W., F.*
 †† General Biology, *W.*
- VII.—*T., Th., at 8.*
 II. French.
 Advanced Italian.
 I. English Language, *M., T.,*
also M. at 9.
 VI. History.
 VI. Mathematics.
 Bacteriology.
- VIII.—*T., Th., at 9.*
 { II. Latin.
 { III. Latin.
 VI. Greek.
 { VII. German.
 { VIII. German.
 IV. Economics.
 Astronomy.
 { V. Physics, *Th.*
 { VI. Physics, *Th.*
 XI. Physics.
- IX.—*T., Th., at 10.*
 VII. Greek, *also M.*
 IV. French.
- IV. Philosophy.
 Science and Religion.
 XII. Mathematics.
 I. Chemistry, *also W.*
- X.—*T., Th., at 11.*
 { IX. Latin.
 { X. Latin.
 II. Greek.
 VII. Economics.
 VI. Philosophy.
 II. Mathematics.
 II. Physics.
 { II. Chemistry.
 { VI. Chemistry.
- XI.—*T., Th., at 12.*
 { VII. Latin.
 { VIII. Latin.
 III. Greek, *T.*
 V. History.
 Theism.
 V. Mathematics, *also F.*
 XIII. Physics, *Th.*
 I. Geology.
- XII.—*T., Th., at 3.*
 { IV. Latin.
 { V. Latin.
 VI. English Language.
 Elocution.
 VIII. Economics, *T.*
 III. Philosophy.
 VIII. Mathematics, *T., also F.*
at 9.

* May be elected with IV. German.

† May be elected with VII. English Language.

†† May be elected with Physical Geography and Botany.

SELECTION OF STUDIES.

The studies which are required of students in the respective classes and courses are indicated below. In addition to these, each student of the three upper classes is required to elect such a number of studies that his *average* number of recitations and lectures a week for the year, exclusive of rhetorical exercises, shall be not less than 14 nor more than 17. The minimum requirement for Freshmen is 15 recitations and lectures a week for the year, exclusive of declamations; the maximum is 17. Elections must be made in accordance with the restrictions specified in the description of the respective courses in the foregoing statement of the courses of instruction. *No student is allowed to take more than one course in any examination group (see pages 66, 67), with the exception of those which are not given in the same half-year.*

SCHEDULE OF REQUIRED STUDIES.

N. B.—The numbers in *italics* indicate the average number of hours a week for the year.

CLASSICAL COURSE.

FRESHMEN:—I. Latin, *4*; I. Greek, *4*; I. Mathematics, *4*; I. English Language, *2*; I. German, or I. French, *3*.

SOPHOMORES:—Logic, *1*; I. Physics, *2½*; I. Chemistry, *1½*.

JUNIORS:—Psychology, *1½*; I. Economics, *2*. (Economics may be postponed to the Senior year, or may be taken, with the permission of the instructor, in the Sophomore year).

SENIORS:—Ethics, *1*; Evidences of Christianity, *1*.

LATIN-SCIENTIFIC COURSE.

FRESHMEN:—I. Latin, 4; I. Mathematics, 4; I. English Language, 2; Physical Geography, General Biology, and Botany, 3; I. or II. French, or I. or II. German, 2 or 3. (See page 43.)

SOPHOMORES:—Logic, 1; I. Physics, 2½; I. Chemistry, 1½.

For such part of the courses in science or modern languages above named as students may have passed in at entrance, they will be allowed to substitute enough elective work to fill out the required quota of exercises a week.

JUNIORS:—Psychology, 1½; Economics, 2. (See requirements for classical course.)

SENIORS:—Ethics, 1; Evidences of Christianity, 1.

SCIENTIFIC COURSE.

FRESHMEN:—Not less than fifteen hours a week of the following courses: I. Mathematics, 4; I. English Language, 2; I. German, 3, and II. French, 2, or II. German, 3, and I. French, 3 (see page 43); I. Physics, 2½; I. Chemistry, 1½; Physical Geography, General Biology, and Botany, 3.

For such of these studies as students may have passed in at entrance, they are allowed to substitute elective work.

SOPHOMORES:—II. German, 3, or II. French, 2 (see page 43); Logic, 1; Astronomy, 2; Geology, 2; Physiology, 2.

JUNIORS:—Psychology, 1½; I. Economics, 2. (See requirements for classical course.)

SENIORS:—Ethics, 1; Evidences of Christianity, 1.

In addition to the courses indicated in the foregoing statement, exercises in English composition and public speaking are required of all classes, as specified on pages 45-47.

<p>I. Latin, 2. II. German. III. English Literature, 2. I. Economics. VIII. Physics.</p>	<p>IX. Latin (1st half). X. Latin (2d half). VII. Economics. VI. Philosophy (2d half). II. Physics.</p>	<p>I. Mathematics, 2. XII. Mathematics. I. Chemistry (1st half).</p>	<p>I. Latin, 2. II. German. III. English Literature, 2. I. Economics. VII. Philosophy (1st half). VIII. Philosophy (2d half). XI. Mathematics.</p>	<p>I. Latin, 2. II. German. III. English Literature, 2. VII. Philosophy (1st half). VIII. Philosophy (2d half). IX. Mathematics.</p>
<p>I. Latin, 2. II. German. III. English Literature, 2. VII. Philosophy (1st half). VIII. Philosophy (2d half). IX. Mathematics.</p>	<p>I. Latin, 2. IX. Latin (1st half). X. Latin (2d half). II. Greek. III. German. VII. Economics. VI. Philosophy (2d half). VII. Philosophy (1st half).</p>	<p>I. Mathematics, 2. XII. Mathematics. I. Chemistry (1st half). I. Chemistry (1st half).</p>	<p>I. Latin, 2. II. German. III. English Literature, 2. I. Economics. VII. Philosophy (1st half). VIII. Philosophy (2d half). XI. Mathematics.</p>	<p>I. Latin, 2. II. German. III. English Literature, 2. VII. Philosophy (1st half). VIII. Philosophy (2d half). IX. Mathematics.</p>

3.	VI. Latin. IV. German. X. English Language. VIII. History (1st half). III, IV, VII, VIII. Chemistry. Physical Geography (1st half). Botany (2d half).	IV. Latin (1st half). V. Latin (2d half). VI. English Language. VIII. Economics. III. Philosophy. III, IX, X. Mathematics. III, IX, X. Physics. V, VI. Biology.	VI. Latin. VI. German (1st half). I. French, 2. VIII. History (1st half). Logic (2d half). III, IX, X. Physics. III, IV, VII, VIII. Chemistry. General Biology (1st half). Botany (2d half).	General Biology (1st half). Botany (2d half). V, VI. Biology. Declaration (Juniors, 1, 3)* Declaration (Soph., 4)*	Declaration (Freshmen, 4)*	IV. Latin (1st half). V. Latin (2d half). VI. English Language. VIII. History (1st half). III, IX, X. Mathematics. III, IX, X. Physics. V, VI. Biology.	IV. Latin (1st half). V. Latin (2d half). VI. English Language. VIII. History (1st half). III, IX, X. Philosophy. III, IX, X. Physics. V, VI. Biology.	I. French, 2. VII. English Language. Logic, 2 (2d half). III, IV, VII, VIII. Chemistry. Physical Geography (1st half). Botany (2d half).
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GENERAL REGULATIONS.*

QUOTA OF STUDIES.

For students of the three upper classes, the quota of regular studies is, for a minimum, fourteen hours, and for a maximum, seventeen hours of class-room work a week, exclusive of rhetorical exercises. The quota for Freshmen (see pages 68 and 69) varies from fifteen to seventeen hours of class-room work a week, exclusive of declamations. No student is allowed to take less than fourteen, nor more than seventeen, hours of work a week without special permission from the Faculty.

GRADES.

The general character of the work of each student in each study is indicated by his assignment to one of five grades, grade 1 denoting the highest excellence, and grade 5, failure to pass. The Secretary of the Faculty sends to each student, within three weeks after Commencement, a report of his grades in all the studies which he has taken during the year.

EXAMINATIONS.

Regular examinations are held at the end of the college year, and during a specified period in February, according to the times at which the respective studies are completed. No student who has been absent from fifteen per cent. or more of the required exercises in any study can be admitted to examination in that study, except by special permission from the Faculty. Such permission may be accorded when the Faculty are convinced that the absences have not been due to culpable negligence. In the application of this rule, absences from the first or the last exercise of a term in any study, or consecutive absences including the first or the last exercise, are each reckoned as two absences.

To students who, for any reason, have not passed at a regular examination, opportunities for special examinations are given at

* Copies of the detailed Regulations may be obtained from the Secretary

specified times. If a student fails to pass a final examination in any study before that study is taken up by the next succeeding class, he is required, unless specially excused therefrom, to recite with that class. A student who, at the close of the special examinations held at the beginning of the year, is deficient by an amount equivalent to six or more hours of work a week for a year, is ranked with the next lower class, unless specially excused therefrom by the Faculty.

ENTRANCE CONDITIONS.

A student who fails to make up entrance conditions before the first day of November of the next college year, is excluded from all recitations until the conditions are made up.

PUBLIC WORSHIP.

Devotional services, at which the attendance of students is required, are held in the College Chapel every morning.

Every student is required to attend the Sunday morning service in some one of the churches in the city.

A limited number of absences from chapel and church are allowed, without the presentation of any excuse.

Voluntary religious services under the direction of the several college classes and of the Young Men's Christian Association are held weekly.

ATHLETIC AND MUSICAL ORGANIZATIONS.

No member of the Senior or Junior class who is deficient in his college work more than two hours a week for a year, and no member of the Sophomore class who is deficient more than three hours a week for a year, is allowed to take part in any athletic contest with another team, except by special permission; and any student who becomes notably deficient in his work during the year may be debarred from taking part in such a contest.

Members of the college musical organizations, who are deficient as specified in the preceding paragraph, are not allowed to appear in public concerts given by those organizations.

No student under censure is allowed to serve, without permission of the Faculty, in any capacity on an athletic organization or on a musical association giving public concerts.

LEAVE OF ABSENCE

A student who desires excuse from college exercises on account of absence from town must apply to the President for permission to be absent, and, unless the circumstances of the case render it impracticable, such permission must be obtained before the student's departure.

EXPENSES.

The annual charges in the Treasurer's bill are as follows:—

Tuition, - - - - -	\$75 00
Rent and care of half-room, unfurnished, from \$18	
- to \$40; average, - - - - -	29 00
Steam heat; average for half-room, - - - - -	8 00
General repairs and incidentals (lighting, heating,	
and care of public rooms, gymnasium fee, etc.), - - - - -	27 00
Use of library and reading-rooms, - - - - -	6 00
Total, - - - - -	\$145 00

A fee of five dollars a term is charged to each student in practical physics, and also to each student in practical biology.

Students in practical chemistry are charged the following fees, per term: for organic chemistry, ten; for quantitative analysis, eight and one-third; and for qualitative analysis, five dollars. A moderate additional charge is made for breakage.

Ladies residing in the Ladies' Hall are charged at the rate of five dollars and a half a week for board and room-rent. Those residing elsewhere in the city are charged two dollars a term for the use of the study-room in the Ladies' Hall.

A diploma fee of five dollars is charged to each student at graduation.

A diploma fee of ten dollars is charged to each graduate student upon promotion to the Master's degree.

The college bills are payable at the commencement of each term; a rebate of one dollar is made on all college bills that are paid on or before the day appointed. Unless the bill for any term is paid, or payment thereof guaranteed, before the commencement of the following term, the student is liable to exclusion from recitations.

No student can have an honorable dismissal, or certificate of progress in his studies, until his bills are paid or payment thereof guaranteed.

A student who is absent from college on account of sickness, or for other cause, and who retains his place in his class, must pay the full college bills during his absence.

The rooms in the college buildings are rented to students during term time only, and must be vacated at the close of the third term. Students are held accountable for any damage done to their rooms. During the summer vacation the rooms are put in order, and the expense charged to the occupants.

Students are permitted to take lodgings in town, but the places in which they room or board are in all cases subject to the approval of the Faculty. If, however, any of the rooms in the college are thus left vacant, the rent of such rooms may be charged to holders of free scholarships who room in town.

Board may be obtained in private families at prices varying from \$3.75 to \$5.00 a week. A large majority of the students board in clubs, at prices ranging from \$3.00 to \$4.00 a week. The price of board at the College Commons is, for the present, \$2.25 a week.

Other expenses incident to college life vary with the habits and circumstances of the student. They are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and health have been compelled to leave the college for want of money.

THE COMMONS.

In order to reduce the expense of a college course, the college has established a commons, where board may be obtained at a low rate. The building known as the Foss House, in the rear of the campus, has been fitted up for the use of the commons. Two large rooms have been furnished as dining rooms, affording accommodation for about forty boarders. There is also a sitting room which serves as a library and reading-room. The upper rooms of the house are rented unfurnished for dormitory purposes, at lower rates than the rooms in North College.

An organization has been effected by the members of the commons, and it is intended to make the club as attractive as possible in a social way. Some attention will also be given to debate and to various literary exercises.

The college is responsible for the general management of the commons, the details being in charge of a matron who is responsible to a college officer. Bills are paid into the college treasury, and the college assumes all financial responsibility. The rate of board has been fixed tentatively at two dollars and a quarter a week, with a guarantee that it shall not exceed two dollars and a half.

MATERIAL EQUIPMENT.

LIBRARY AND READING-ROOMS.

THE LIBRARY in Rich Hall contains about fifty-seven thousand volumes. The library is open every week-day of the college year from 8:15 A. M. to 10 P. M. Students are allowed direct access to the shelves. Copies of the library rules may be obtained from the Librarian.

On the first floor of North College is a reading-room, provided with the principal newspapers, daily and weekly. Another reading-room, on the second floor of Rich Hall, contains the current issues of the most important magazines and reviews, literary and scientific, American and foreign.

ASTRONOMICAL OBSERVATORY.

THE OBSERVATORY is used for purposes of instruction, and is well equipped therefor. Students in astronomy have frequent opportunities to examine the most interesting celestial objects through the telescope; and members of the class in practical astronomy are instructed in the theory and use of all the instruments in the observatory.

The principal instruments are an equatorial of twelve inches aperture, by Alvan Clark & Sons, provided with a filar micrometer and spectroscopes, solar and stellar, two of which have very high dispersive power; a transit instrument of three inches aperture, with collimators of the same aperture, and adapted to use as a zenith telescope; a prime vertical instrument of the same size; sextants; two astronomical clocks; a chronometer; and a chronograph.

LABORATORIES AND APPARATUS.

THE LABORATORY OF EXPERIMENTAL PSYCHOLOGY contains a collection of apparatus for illustration and experiment in the field of

physiological and experimental psychology. The equipment is now sufficient for a thorough course with demonstration and for some advanced research. Among the principal pieces of apparatus are models of the nervous system, a Hipp chronoscope, Helmholtz's rotation apparatus, Schumann's "Zeitsinn" apparatus, a chronograph, a pendulum-tachistoscope, a sphygmograph, a plethysmograph, stereoscopes, tuning forks, electrical supplies, etc. The laboratory occupies at present the same room as the philosophical seminary, No. 7 South College.

THE PHYSICAL LABORATORY is equipped with apparatus for the performance of the experiments usually undertaken in undergraduate courses. In the department of electricity, facilities are afforded for instruction in the use of all important electrical instruments and machines. The laboratory work in all departments except electricity is carried on in the rooms on the ground floor of Observatory Hall. The electrical work is carried on, partly in the dynamo-room, which is located in the boiler house, and partly in a separate laboratory closely adjacent. The dynamo-room contains a 25 horsepower engine, several dynamos and motors, transformers, and a variety of testing instruments.

THE CHEMICAL LABORATORY occupies seven rooms in Judd Hall. A large working-room on the first floor, with a balance room adjoining, furnishes accommodations for about fifty students, and smaller rooms afford conveniences for the work of instructors, assistants, and graduate students. Two other rooms on the first floor are used for library, seminary, and office purposes. A large room in the basement serves for the laboratory work of the required course in elementary chemistry.

THE BIOLOGICAL LABORATORY occupies six rooms in Judd Hall, and is capable of accommodating about thirty students. Four rooms are used for general laboratory purposes, of which one is used for miscellaneous laboratory work, one for physiological work, one for coarse dissection, and one for bacteriological work. The laboratory is equipped with all the apparatus necessary for elementary biological work, and is provided with an abundance of material for anatomical and histological study. The general laboratory room contains a type collection illustrating all orders of animals, and students are allowed to use the large museum collection for comparison and direct study.

THE MECHANICAL LABORATORY occupies the west room in the boiler house, and is in charge of a skilled mechanician. This laboratory affords facilities not only for the repair of apparatus belonging to the college and for the construction of new apparatus which may be designed by the professors or by the mechanician, but also for the instruction of students who find a certain degree of mechanical skill necessary to complete their training in the scientific departments.

The rooms of the biological, physical, and mechanical laboratories are lighted by electricity.

MATHEMATICAL MODELS. This collection, the gift of Ebenezer Hill, Esq., of the class of 1870, comprises a complete set of the models made by Brill of Darmstadt, for illustration in the higher branches of mathematics, as well as in mathematical physics and crystallography. The models are arranged in a series of cases in the mathematical reading-room in Observatory Hall.

GYMNASIUM AND ATHLETIC FIELD.

THE FAVERWEATHER GYMNASIUM is located on the north side of the rear campus, parallel with Wyllys Avenue. Its dimensions are 55 by 120 feet.

The basement contains two bowling alleys, a base-ball cage, baths, lockers, and toilet rooms.

On the first floor is the main hall of the gymnasium, which is well equipped and affords ample room for every variety of gymnastic exercise. The director's office and rooms for baths and lockers are also on the first floor. The running track is suspended from the roof, above the main floor. On the second floor is a trophy room, used also as a committee room by the various athletic organizations, as well as additional baths and lockers. Special attention has been paid to ventilation, drainage, and lighting, and the present structure is believed to contain the best features of a modern gymnasium.

The gymnasium is in charge of a competent director. Exercise in the gymnasium is required of the men of the Freshman and Sophomore classes, three hours a week, from Thanksgiving to the end of the winter term. Elective work in the gymnasium is offered to the men of the Junior and Senior classes.

Through the generosity of Mr. J. E. Andrus, of the class of 1862, a trustee of the University, a well equipped athletic field has recently been laid out, and a grand stand is soon to be erected. The field is in the rear of the main line of college buildings, just south of the gymnasium. A quarter-mile cinder track, with a "straight-away" of 200 yards, encircles one portion of the field, within which ample room is afforded for base-ball, foot-ball, and field and track athletics. The entire field, covering seven acres, provides sufficient space for class and 'varsity teams to practice at the same time. Its proximity to the college enables the whole student body to keep in touch with the training in all branches of athletics, and affords the teams an opportunity to use the dressing rooms and baths, reserved for them in the gymnasium.

MUSEUM.

THE MUSEUM OF NATURAL HISTORY AND ETHNOGRAPHY occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with special reference to their educational use, and are freely accessible to students.

The nucleus of the departments of zoölogy and botany was formed by the Shurtleff collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The Zoölogical Department has received since 1872 most important accessions in liberal donations and exchanges from the Smithsonian Institution, and in collections made by the curators on the coast of New England, through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland have also added large and valuable collections. This department includes about thirteen thousand species. The vertebrata of North America, the marine invertebrata of New England, and the mollusca in general, are especially well represented.

The Herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many specimens from foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the University in 1879.

The Mineralogical Department includes about four hundred species, and a much larger number of varieties. The Franckfort collection, purchased in 1858, contains many choice specimens, mostly from

European localities. The minerals of the interesting region in which Middletown is situated are well represented by collections commenced by the labors of Professor Johnston, and largely increased by accessions within the last few years. Important accessions have recently been secured by collecting trips to Nova Scotia and to Herkimer County, N. Y.

The Geological Department includes collections in lithology, physical geology, and paleontology. The lithological collection has recently been enriched by a set of the educational series of rock specimens described in Bulletin No. 150 of the U. S. Geological Survey, presented by the Survey. A suite of Ward's casts of fossils, presented by Orange Judd, M. A., in 1871, serves an excellent purpose in the work of instruction, affording the student a representation of many remarkable forms of ancient life, actual specimens of which are rare or unique. The collections in paleontology have been very largely increased within the last few years, by the work of the present curator in the vicinity of Middletown, at Valcour Island, Lake Champlain, in western Maryland, in the vicinity of Chattanooga, Tenn., Canon City, and Florissant, Col., and Fossil, Wyo., and in Nova Scotia. A choice collection of European fossils, including a number of beautiful specimens from the lithographic limestone of Solenhofen, has been recently received in exchange from the Museum of Munich.

The Ethnographical Department includes a large collection of Indian relics; a valuable collection of pottery from the guano beds of Peru, presented by the late Joseph S. Spinney; an interesting collection of weapons and other objects from the South Sea Islands; and a remarkably full series of objects illustrative of Chinese life and customs, presented by Rev. Marcus L. Taft, D. D. In connection with the ethnographical department of the museum should be mentioned a collection of coins, numbering over 3,000, exclusive of duplicates. Included in this number is a collection of 1,750 Chinese coins, some of which are ancient and very rare, presented by Rev. Marcus L. Taft, D. D. The greater part of the ethnographical collection is at present arranged in the lower hall of the museum, with the collections in mineralogy and geology. The coins (with the exception of a small selection placed on exhibition in the museum) are kept in a case in the library, where they can be seen by students and others on special application. Small collections illustrative of classical archæology are kept in the seminary rooms.

The following is an approximate statement of the number of specimens in the various departments of the museum:—

DEPARTMENT OF ZOÖLOGY.

Mammals—skins mounted and unmounted,	-	-	-	-	-	-	-	-	200
alcoholic,	-	-	-	-	-	-	-	-	50
skulls and skeletons,	-	-	-	-	-	-	-	-	110
Birds—skins mounted and unmounted,	-	-	-	-	-	-	-	-	1,500
nests and eggs,	-	-	-	-	-	-	-	-	600
Reptiles,	-	-	-	-	-	-	-	-	350
Amphibians,	-	-	-	-	-	-	-	-	150
Fishes,	-	-	-	-	-	-	-	-	2,100
Insects—pinned and alcoholic,	-	-	-	-	-	-	-	-	6,500
nests, borings, etc.,	-	-	-	-	-	-	-	-	50
Crustacea,	-	-	-	-	-	-	-	-	1,500
Worms,	-	-	-	-	-	-	-	-	1,800
Mollusks—shells,	-	-	-	-	-	-	-	-	90,000
alcoholic,	-	-	-	-	-	-	-	-	4,000
Echinoderms,	-	-	-	-	-	-	-	-	1,000
Coelentera,	-	-	-	-	-	-	-	-	1,700
Sponges and protozoa,	-	-	-	-	-	-	-	-	150

DEPARTMENT OF BOTANY.

Plants in herbarium,	-	-	-	-	-	-	-	-	10,700
Specimens of wood,	-	-	-	-	-	-	-	-	300
Miscellaneous botanical specimens,	-	-	-	-	-	-	-	-	600

DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks,	-	-	-	-	-	-	-	-	14,500
Fossils—Paleozoic,	-	-	-	-	-	-	-	-	9,500
Mesozoic,	-	-	-	-	-	-	-	-	2,500
Cenozoic,	-	-	-	-	-	-	-	-	3,000

DEPARTMENT OF ETHNOGRAPHY.

Miscellaneous ethnographic specimens,	-	-	-	-	-	-	-	-	2,800
Coins,	-	-	-	-	-	-	-	-	5,000

The museum is open to the public on Wednesday and Saturday afternoons.

SCHOLARSHIPS.

TUITION SCHOLARSHIPS.

A limited number of scholarships, exempting the holders from the charge for tuition, have been established by the Trustees, and are available, at the discretion of the President, for the use of deserving students who need pecuniary assistance.

In addition to these are the following:—

THE JOHN EVANS SCHOLARSHIP.

This scholarship was founded by Mrs. Ann Evans in memory of her husband. The income is about one hundred dollars, and is given annually to that member of the Senior or Junior class who is named by the Board of Trustees, or by some authority to whom they may delegate the nomination. For this scholarship, only such students as are preparing themselves for the ministry, and are already licentiates in the Methodist Episcopal Church, can be candidates.

THE SQUIRE SCHOLARSHIP.

This scholarship was founded by Hon. Watson C. Squire, B. A. In accordance with its provisions, the income of \$5,000 is awarded to that member of the Senior class who passes the best examination in Greek, provided that the successful candidate devote the ensuing year to classical study, in residence in the University, or in connection with travel or residence abroad, at his option, subject to the approval of the Committee on Graduate Instruction.

THE JONES SCHOLARSHIP.

This scholarship was founded by Frank S. Jones, Esq. The income, amounting to fifty dollars, is available, at the discretion of the President, for the use of a deserving student who needs pecuniary assistance.

COLLEGE HONORS.

PRIZES.

The Harrington Prize, the gift of Rev. Edmund Mead Mills, D. D., in memory of Professor C. S. Harrington, is awarded for the best essay on some specified subject in the department of history. The subject for the essay of 1900 is: The Causes of the American Civil War.

The Joseph D. Weeks Prize, the gift of Joseph Dame Weeks, M. A., is awarded for the best essay on some specified subject in the department of economics. The subject for the essay of 1900 is: The Income Tax, with especial reference to American Conditions and Experience. The essays must be left with the head of the department on or before the third Monday in May (May 21).

The Peirce Prize, the gift of Rev. Bradford K. Peirce, D. D., is awarded for excellence in natural science. It will be given in 1900 upon a special examination based on Course I. in geology. The subject of the examination in 1901 will be biology; in 1902, chemistry.

The Phi Beta Kappa Prize is awarded for excellence in Latin. It will be given in 1900 upon a special examination on the first book of Cicero's Letters to Atticus, together with the examination in Latin for preliminary honors in classics.

The G. Brown Goode Prize, the gift of Mrs. G. Brown Goode, is awarded for the best original investigation in the department of natural history.

No person who has once taken either the Harrington, the Joseph D. Weeks, the Phi Beta Kappa, or the G. Brown Goode Prize, may compete for it again.

The Weeks Prize, the gift of Joseph Dame Weeks, M. A., is awarded for excellence in modern philosophy. It will be given in 1900 upon an examination in Courses VII. and VIII. in philosophy, together with additional work to be assigned by the instructor.

A prize is awarded for excellence in Greek archaeology. It will be given in 1900 upon a special examination in Course VIII. in Greek.

The Camp Prize, the gift of Samuel T. Camp, Esq., is awarded for excellence in English literature. It will be given in 1900 upon a special examination in Course I. in English literature.

The Johnston Prize, the gift of Rev. David G. Downey, D. D., in memory of Professor John Johnston, is awarded for excellence in electricity. It will be given in 1900 upon a special examination based on Course II. in physics.

The Spinney Prize, the gift of Mrs. Joseph Spinney, is awarded for excellence in Greek. It will be given in 1900 upon a special examination based in part on the first half of Course II. in Greek.

The Rice Prize, the gift of Rev. William Rice, D. D., is awarded for excellence in mathematics. It will be given in 1900 upon a special examination based on Course V. in mathematics.

Students who compete for either the Weeks, the Greek archaeology, the Camp, the Johnston, the Spinney, or the Rice Prize must do so during the year in which they regularly pursue the course or courses on which the examination for the prize is based.

The Wise Prize, the gift of Rev. Daniel Wise, D. D., is awarded to that member of the Senior class who excels in moral philosophy.

The Walkley Prize, the gift of Webster R. Walkley, M. A.,—*in memoriam* David Hart Walkley, graduated June, 1878; died September 16, 1878,—is awarded to that member of the Junior class who excels in psychology.

The Sherman Prize, the gift of Rev. David Sherman, D. D., is awarded this year to that member of the Freshman class who excels in mathematics. The examination is based on the required course in mathematics. The subject of the examination in 1901 will be Latin; in 1902, Greek.

The Ayres Prize, the gift of Daniel Ayres, M. D., LL. D., is awarded to that member of the Freshman class who is found, upon special examination, to have attained the highest excellence in the studies preparatory to admission to the classical course.

The Rich Prize, the gift of Mrs. Isaac Rich, is awarded to that member of the Senior class whose oration at Commencement is deemed best in composition and delivery. Each oration must contain not more than twelve hundred words, and must be left with the Professor of English Literature on or before the second Tuesday (June 19) preceding Commencement.

The Olin Prize, the gift of Mrs. Julia M. Olin, is awarded to that member of the Senior class who excels in English composition. The subject for the essay of 1900 is: James Russell Lowell as Man of Letters. The subject for the essay of 1901 is: The Political Consistency of Edmund Burke. Essays must be left with the Professor of English Literature on or before the first Monday of the third term (April 23).

Two prizes are awarded, as a first and second prize respectively, to the two members of the Junior class who present the best orations at the annual Junior Exhibition. In the award of these prizes, both the composition and the delivery of the orations are considered. The orations must be left with the Professor of the English Language on or before the first Saturday in the third term (April 21).

The Briggs Prize, the gift of James E. Briggs, Esq., is awarded to that member of the Junior class who excels in debate.

The Parker Prize, the gift of Rev. John Parker, for excellence in elocution, is awarded to the best speaker in the Junior and Sophomore classes.

A second prize is awarded, in the same classes, for excellence in elocution; but, in the competition for it, selections of a dramatic character, and from poetry, are excluded.

The Hibbard Prize, the gift of Professor Ralph G. Hibbard, M. A., is awarded to that member of the Freshman class who excels in declamation.

The Taylor Prize, the gift of Rev. George Lansing Taylor, D. D., is awarded to that student who presents the best English poem. The poem must be left with the Professor of English Literature before the Senior examination.

The several Committees of Award will withhold any prize, if, in their judgment, none of the exercises presented in competition for it possess the requisite merit.

AWARD OF PRIZES, 1898-99.

The Harrington Prize, to HENRY ANDREWS INGRAHAM.

Committee of Award:—Robert McNutt McElroy, M. A., of Princeton University.

The Joseph D. Weeks Prize, to CHARLES ARTHUR HADLEY.

Committee of Award:—Frank Gaylord Gilman, M. A., of the Newark High School.

The Peirce Prize, to FRANK BERTRAM WADE.

Committee of Award:—Allen Ross Defendorf, M. D., of the Connecticut Hospital for the Insane.

The Phi Beta Kappa Prize, to ROBERT CECIL MCMAHON. Honorable mention, HARRY TORSEY BAKER and WALLACE SELDEN BOARDMAN.

Committee of Award:—Professor John Carew Rolfe, Ph. D., of the University of Michigan.

The G. Brown Goode Prize, to HERBERT SPENCER DAVIS.

The Weeks Prize, to FREDERICK LINCOLN FLINCHBAUGH.

The Greek Literature Prize, to HARRY TORSEY BAKER and HORACE DURAR BYRNES.

The Camp Prize, to HORACE DURAR BYRNES. Honorable mention, HARRY TORSEY BAKER.

The Johnston Prize, to CLARENCE ALBERT PIERCE.

Committee of Award:—Professor Arthur Lalanne Kimball, Ph. D., of Amherst College.

The Spinney Prize, to WILLIAM HARRY CLEMONS and ALBERT LLOYD COOPER.

Committee of Award:—John William Henry Walden, Ph. D., of Cambridge, Mass.

The Rice Prize, to BURTON HOWARD CAMP.

The Wise Prize, to CHARLES ARTHUR HADLEY.

Committee of Award:—Professor Charles Hubbard Judd, Ph. D., of New York University.

The Walkley Prize, to HORACE DURAR BYRNES. Honorable mention, BURDETTE ROSS BUCKINGHAM.

The Sherman Prize, to JAMES WISWELL MUDGE.

Committee of Award:—Same as for the Spinney Prize.

The Rich Prize, to ARTHUR FREDERICK GOODRICH.

Committee of Award:—Rev. David George Downey, D. D., of Brooklyn, N. Y.; Rev. Charles Alvin Littlefield, M. A., of Chelsea, Mass.; and Albert Perry Walker, M. A., of the English High School, Boston, Mass.

The Olin Prize, to EDWARD MITCHELL SPENCER.

Committee of Award:—Professor William D. McClintock, of Chicago University.

The First Junior Exhibition Prize, to HORACE DURAR BYRNES.

Committee of Award:—Rev. Levi Gilbert, D. D., of New Haven; Principal Frank Prescott Moulton, M. A., of Hartford; and Rev. Azel Washburn Hazen, D. D., of Middletown.

The Second, Junior Exhibition Prize, to WALTER BROWNE WILSON.

Committee of Award:—Same as for the First Junior Exhibition Prize.

The Briggs Prize, to HORACE DURAR BYRNES.

The Parker Prize, to HORACE DURAR BYRNES.

Committee of Award:—Rev. John Henry Strong, B. A., of New Britain; William Walter Wilcox, Jr., B. A., of Middletown; and John Henry Kirkham, B. A., of New Britain.

The Second Prize in Elocution, to ROY HUMISTON JONES.

Committee of Award:—Same as for the Parker Prize.

The Hibbard Prize, to WILLIAM GRAY HARRIS.

Committee of Award:—Same as for the Parker Prize.

The Ayres Prize, for the current year, to ROBINSON SPENCER, prepared at the Penn Charter School, Philadelphia, Pa., and at the Centenary Collegiate Institute, Hackettstown, N. J.

APPOINTMENTS FOR JUNIOR EXHIBITION AND COMMENCEMENT.

The speakers at the Junior Exhibition are selected according to their grade in composition and declamation subsequent to the Freshman year. The speakers at Commencement are selected according to their grade in composition and declamation subsequent to the Sophomore

year. The number of speakers at each of these public exercises is limited to eight. The speakers last year were:—

JUNIOR EXHIBITION.

HARRY TORSEY BAKER,	EMORY HAMMOND WESTLAKE,
EMIL HARRY Blichfeldt,	WALTER DROWNE WILSON,
HORACE DURAR BYRNES,	FRANK EVERETT WING,
CHRISTABEL MAY COE,	JOHN EDWIN WING.

COMMENCEMENT.

JOSEPH BEECH,	WARREN FRENCH SHELDON,
FREDERICK LINCOLN FLINCHBAUGH,	MAE DEERING SMITH,
ARTHUR FREDERICK GOODRICH,	EDWARD MITCHELL SPENCER,
CHARLES ARTHUR HADLEY,	MARY EMMA WILLIAMS.

HONORS IN SCHOLARSHIP.

I. HONORS IN GENERAL SCHOLARSHIP.—Two grades of honor, designated respectively as honors and high honors, are conferred at graduation, based upon the general scholarship of the student throughout his whole course.

An honor in general scholarship is awarded to a student who has received a grade not below third on an aggregate of not less than 63 hours' work, as reckoned in the record of standings, has received first grade on a number of hours' work not less than the part of the 63 hours' work on which he has received third grade, and has not fallen below fourth grade in any study of the course.

A high honor in general scholarship is awarded to a student who has received a grade not below second on an aggregate of not less than 63 hours' work, has received first grade on an aggregate of not less than 50 hours' work, and has not fallen below third grade in any study of the course.

II. PRELIMINARY HONORS.—Preliminary honors are awarded in the departments of classics and mathematics at the end of the Sophomore or Junior year, and no student can receive special honors at graduation in Greek, Latin, or mathematics, who has not previously received the corresponding preliminary honors. Notice of candidacy for preliminary honors must be given to the senior officer of the department, and to the Secretary of the Faculty, as early as the first Monday of the third term of the year in which the candidate proposes to present himself for the special examination (April 23).

The case of each candidate is decided by the Faculty. The special regulations concerning the award of preliminary honors are as follows:—

Classics.—1. The candidate must not fall below third grade, and must maintain an average standing of second grade, in the following courses:—I., II., and III. Greek, and in Latin I., VI., and any two of the Courses II.–V.

2. He must also pass with distinction a special examination, held near the end of the academic year, and designed to test (*a*) his ability to translate Greek and Latin into English at sight, and (*b*) his knowledge of Greek and Latin grammar, and of Greek and Roman antiquities, mythology, and political and literary history.

Mathematics.—1. The candidate must not fall below third grade, and must maintain an average standing of second grade in the required course in mathematics, and in such elective courses, amounting to not less than five hours a week, as may be approved by the head of the department. Courses IV. and V. are recommended.

2. He must pass with distinction a special examination, held near the end of the academic year, which may cover the entire field of his mathematical knowledge.

III. HONORS IN SPECIAL DEPARTMENTS AT GRADUATION.—Two grades of special honor, designated respectively as honors and high honors, are awarded at graduation in each of the following departments:—

Latin; Greek; German; Romance Languages; English; History; Economics and Social Science; Philosophy; Mathematics; Physics; Chemistry; Geology; Biology.

The conditions upon which special honors in these departments are awarded are as follows:—

(1) The candidate must apply to the officer in charge of the department in which he proposes to take honors, and to the Secretary of the Faculty, not later than the first Monday of the third term in the Junior year (April 23).

(2) He must pass at the regular or special examinations in such studies of the college course as are prescribed for honors in the several departments in the schedule given below; and in such studies he must not fall below third grade, and must maintain an average standing of second grade after the beginning of the Sophomore year, or must receive first grade in all of the prescribed studies which he takes after the beginning of his Junior year.

(3) In addition to the studies regularly prescribed in the schedule below, the candidate must pursue such a course of collateral reading or investigation as is prescribed by the officer in charge of the department, with the approval of a committee of the Faculty. The evidence of his proficiency in this collateral course is given by an examination, oral or written, by a thesis or essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as may be prescribed by the officer of the department, with the approval of a committee of the Faculty. The case of each candidate is decided by the Faculty.

(4) In addition to other requirements, every candidate for special honors is required to pass a *general examination* covering the entire field of his knowledge in the department in which the honor is given. This examination is oral, and is conducted in the presence of a committee of the Faculty.

(5) No student is awarded special honors who fails to pass in any study of the last two years of the course.

(6) No examination for special honors is given, and no thesis or other work in preparation for special honors is received, after the second Saturday (June 16) preceding Commencement.

The conditions upon which high special honors are awarded are the same as for special honors, with the addition of the following requirements:—

The candidate must receive first grade in all of the prescribed studies which he takes after the beginning of his Sophomore year; and his examinations and other tests must show an exceptionally clear and comprehensive understanding of the studies of the department, and give promise of capacity for independent work.

The following schedule gives the studies required of candidates for special honors in the several departments:—

Latin.—1. So many of the courses in Latin as will amount in the aggregate to not less than twenty hours a week.

2. Courses I. and II. in Greek.

[Candidates for special honors in Latin at graduation are requested to announce their candidacy as early as the beginning of the Junior year.]

Greek.—1. Courses I.–VII., and either Course VIII. or Course IX. in Greek.

2. Course I., and any two of Courses II.–V. in Latin.

German.—1. Courses I.–VIII. in German.

2. Courses I. and II. in French.
3. Course I. in English Literature, or Courses II. and III. in English Language.

Romance Languages.—1. Courses I.—IV. in French, and the elementary course in Italian.

2. Courses I. and II. in German.

English.—1. The required courses in English, including composition.

2. One of the following groups of elective courses:—

(a.) Courses II., III., and VI. in English Language, and Courses I., IV., and either II. or III. in English Literature.

(b.) Courses II., III., and VI. in English Language, Course I. in English Literature, and Courses I. and II. in German.

(c.) Courses I., IV., and either II. or III. in English Literature, Courses II. and III. in English Language, and Course V. in History.

(d.) Courses I., IV., and either II. or III. in English Literature, Course V. in History, and any three of the courses in German, French, or Italian.

[In 1902 and thereafter the following groups of elective courses will replace those offered under heading 2 above:—

(a.) Four courses in English Literature, and four courses in English Language.

(b.) Four courses in English Language, one course in English Literature, two courses in German.

(c.) Four courses in English Literature, one course in English Language, four courses in French or German or both.

(d.) Four courses in English Literature, four courses in French or German, one course in English history.

(e.) Five courses in English Language, five courses in French or German.]

History.—1. All the courses in History.

2. The required course, and one elective course, in Economics and Social Science.

Economics and Social Science.—1. All the courses in Economics and Social Science.

2. Courses I., V., and VI. in History.

Philosophy.—1. All the courses in Philosophy.

2. The course in Ethics.

3. The course in Theism, or Course I. in Biology.

Mathematics.—1. The required course in Mathematics.

2. Elective courses in Mathematics and Astronomy, amounting in the aggregate to not less than fifteen hours a week.

3. Course I. in Physics.

[Prospective candidates for special honors in Mathematics at graduation are advised to take Course V. in Mathematics in the Sophomore year.]

Physics.—1. Course I. in Physics.

2. Two years of Practical Physics (in at least one of which there shall be three exercises a week).

3. Not less than three full courses chosen from the following:—IV., V., VI., VII., VIII., XI., XII. Physics, and XII. Mathematics (IV., V., and VI. Physics being reckoned as half-courses).

4. Course I. in Chemistry.

5. Either Course III. in Chemistry or Course V. in Mathematics.

Chemistry.—1. Courses I.–V. and IX. in Chemistry (three exercises a week being required in Course III.).

2. Course I. in Physics, and one year of Practical Physics; or Course VI. in Chemistry, and Courses I. and V. in Biology.

Geology.—1. Courses I.–VI. in Geology.

2. The elementary course in Astronomy.

3. Courses III. and IV. in Biology.

4. Not less than two of the following courses:—V. and VI. Biology, III. and IV. Chemistry, and VII. Physics.

Biology.—1. Courses I.–VI. in Biology.

2. Courses I. and IV. in Geology.

3. Course III. in Chemistry.

[Candidates for special honors in Biology are recommended to take at least one summer course in the Marine Laboratory at Cold Spring Harbor.]

In all cases in which the foregoing schedule allows option between two or more courses or groups of courses, the student's selection is subject to the approval of the head of the department in which he proposes to take honors.

In special cases a candidate for honors may be allowed to substitute other courses for those named in the foregoing schedule, by vote of the Faculty, on recommendation of the head of the department.

An honor of any of the kinds and grades mentioned may be conferred on a student sufficiently meritorious, by vote of the Faculty, even though his record of standing does not completely fulfill the requirements stated above.

The names of those students who take preliminary honors are announced on the Monday preceding Commencement (June 25).

The names of students who take honors at graduation, whether general or special, are printed on the Commencement program.

AWARD OF HONORS, 1898-99.

HONORS IN GENERAL SCHOLARSHIP.

HIGH HONORS.

ADELLA WEBSTER BATES,	JESSIE MILLER,
ARTHUR FREDERICK GOODRICH,	MAE DEERING SMITH,
MARY EMMA WILLIAMS.	

HONORS.

BURDETTE ROSS BUCKINGHAM,	EDWIN WALTER KEMMERER,
HERBERT SPENCER DAVIS,	WILLIAM HENRY LESLIE,
FREDERICK LINCOLN FLINCHBAUGH,	ERNEST MARTIN QUITTMAYER,
CHARLOTTE BENSON FROST,	CHARLES HARLOW RAYMOND,
JAMES GARDNER GOODWIN,	ALFRED EUGENE ROBERTS,
CHARLES ARTHUR HADLEY,	WARREN FRENCH SHELDON,
ISABELLA SINCLAIR HILL,	EDWARD MITCHELL SPENCER,
PERRY CHILDS HILL,	MARY EMMA WILCOXSON.

HONORS IN SPECIAL DEPARTMENTS.

HONORS.

English.

ARTHUR FREDERICK GOODRICH AND EDWARD MITCHELL SPENCER.
The Poetry of Alfred Tennyson. Thesis: "Some Peculiarities of Tennyson's Art."

MARY EMMA WILCOXSON. The Poetry of Robert Browning. Thesis:
"The Ethics of Browning."

MARY EMMA WILLIAMS. The Poetry of Robert Browning. Thesis:
"The Optimism of Browning."

Philosophy.

ERNEST MARTIN QUITTMAYER. The Philosophy of Theism. Thesis:
"The Theistic Argument."

Biology.

HERBERT SPENCER DAVIS. Thesis: "Studies in Egg Development and Segmentation."

PRELIMINARY HONORS.

*Mathematics.**Juniors.*

LEROEY ALBERT HOWLAND.

Sophomores.

BURTON HOWARD CAMP, RICHARD GRANVILLE POVEY,
LESTER EDWARD LYND, WILLIAM CHAUNCEY RICE,
JOSEPH CLARK WINANS.

*Classics.**Juniors.*

HARRY TORSEY BAKER, ROBERT CECIL McMAHON.

Sophomores.

WILLIAM HARRY CLEMONS, ALBERT LLOYD COOPER.



DEGREES.

The following degrees are conferred by the University, in course:—

BACHELOR OF ARTS.—This degree is conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Classical Course.

BACHELOR OF PHILOSOPHY.—This degree is conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Latin-Scientific Course.

BACHELOR OF SCIENCE.—This degree is conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Scientific Course.

The baccalaureate degree is awarded *summa cum laude* to a student who takes high honors both in general scholarship and in one or more departments; *magna cum laude*, to a student who takes a high honor either in general scholarship or in one or more departments; *cum laude*, to a student who takes an honor either in general scholarship or in one or more departments.

MASTER OF ARTS AND MASTER OF SCIENCE.—The degrees of Master of Arts and Master of Science are conferred in accordance with the following regulations:—

1. The degree of Master of Arts is conferred upon Bachelors of Arts of Wesleyan University, of at least one year's standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued in residence for a period of not less than one year. This course of study is under the full direction of a Committee of the Faculty on Graduate Instruction, composed of three permanent members with the addition of the instructor in charge of each department in which the candidate pursues work. Evidence of the candidate's proficiency in the approved studies is given by an examination, oral or written, by a thesis or an essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these

methods combined, as the Committee may prescribe. All such tests of proficiency are under the direction of the Committee, and they report to the Faculty proper candidates for the degree.

2. In the case of Bachelors of Arts of other colleges whose course of study is accepted as sufficient by the Committee on Graduate Instruction, or who pass such additional examinations as the Committee prescribes, the degree of Master of Arts is conferred on the conditions prescribed in the case of Bachelors of Arts of Wesleyan University pursuing a course of study in residence.

3. The degree of Master of Arts is also conferred upon Bachelors of Arts of Wesleyan University, of at least three years' standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued *in absentia*, and equivalent in amount to that prescribed in the case of resident graduate students; and in all other particulars the same regulations hold in the case of non-residents as in the case of resident students. The degree is also conferred upon Bachelors of Arts of Wesleyan University, of two years' standing, at the satisfactory conclusion of a course of study pursued *in absentia*, on the conditions above specified, provided that the candidate has spent the two years in resident study in a non-professional department of some other university.

4. The degree of Master of Science is conferred upon Bachelors of Philosophy and Bachelors of Science, whether of this or of other colleges, under the same conditions which govern in the case of the degree of Master of Arts.

5. A fee of ten dollars is required from each graduate student upon promotion to the Master's degree.

Communications from prospective graduate students regarding the Master's degree should be addressed, in the first instance, to Professor E. T. Merrill, the secretary of the Committee on Graduate Instruction.



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MARY ROMER BEACH, B. A., 1890. Subjects: Latin and Greek.
Thesis: The Relation of Vergil to Theocritus.

CHARLES HARVEY BROWN, B. A., 1897. Subjects: Physics and Mathematics. Thesis: On the Potential of a Polyhedron of Uniform Density.

GEORGE WILLIAM CARTER, B. A., 1892. Subjects: Ethics and Biblical Literature. Thesis: The Kingdom and the Logos.

MYRA COFFIN HOLBROOK, B. A. (Vassar), 1894. Subject: English Literature. Thesis: A Study of the English Drama before Shakspeare.

GEORGE MEAD HUGHES, B. A., 1889. Subject: English Literature. Thesis: The Religious Teaching of Coleridge.

WESLEY WOOD SMITH, B. A., 1881. Subject: Greek. Thesis: The Work of Lucian as an Unconscious Ally of Christianity.

HONORARY DEGREES.**The Degree of Doctor of Divinity was Conferred on**

REV. DAVID GEORGE DOWNEY, of the class of 1884, of Brooklyn, N. Y.

REV. WILLIAM INGRAHAM HAVEN, of the class of 1877, Corresponding Secretary of the American Bible Society.

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ALUMNI RECORD.

ALUMNI RECORD.—Through the liberality of Orange Judd, M. A., a Biographical Record of the Alumni of the University was published in 1869. A third edition of this Record, revised and corrected, was issued in June, 1883.

This edition contains not only the record of alumni, revised and corrected to the date of publication, but also a list of all former students not graduates, with their residences, and such other information with reference to them as the most thorough search could obtain. It also includes a Bibliographical Record, showing all the more important literary and scientific work done by alumni and members of the Faculty. Copies of this edition may be had on application to the librarian, W. J. James. The price of the Record, postage paid, is one dollar.

A fourth edition of the Supplement to the Alumni Record, containing an alphabetical list of the living graduates, with their honorary and professional degrees, their occupations, and their addresses, was published in August, 1899.

Information in regard to changes of address of alumni or in regard to any other facts suitable for future editions of the Record, is earnestly solicited. All who can furnish such information are requested to communicate with Professor F. W. Nicolson.

NECROLOGY.—A list of deceased graduates of the University is published annually in the *Bulletin*. All persons who can supply information for future lists, are urgently requested to communicate the same to Professor F. W. Nicolson.

EMPLOYMENT BUREAU.—An employment bureau has been established in the office of the Secretary of the Faculty, for the purpose of securing positions as teachers for graduates of the college, and to provide opportunities for undergraduates to earn money towards paying their college expenses, either by work in Middletown during term time, or by work in Middletown or elsewhere during the summer vacation. Those who wish to avail themselves of the opportunity thus offered are invited to register; and the alumni and friends of the college are urgently requested to inform the Secretary of any vacancy coming to their notice which might be filled by a Wesleyan student or graduate. No fees are charged.

CALENDAR.

1899.

Sept. 28, Thursday—First Term began.

Nov. 29-Dec 3, Thanksgiving Recess.

Dec. 22, Friday—First Term will close.

CHRISTMAS RECESS.

1900.

Jan. 3, Wednesday—Second Term will begin.

Jan. 25, Thursday—Day of Prayer for Colleges—a holiday.

Feb. 5-17, Mid-year Examinations.

Feb. 22, Thursday—Washington's Birthday—a holiday.

April 11, Wednesday—Second Term will close.

SPRING RECESS.

April 17, Tuesday—Third Term will begin.

April 21, Saturday—Last day for presenting Junior Exhibition Essays.

April 23, Monday—Last day for presenting Olin Prize Essays.

April 23, Monday—Last day for presenting applications for Preliminary and Special Honors.

May 3, Thursday—Junior Exhibition.

May 21, Monday—Last day for presenting Joseph D. Weeks Prize Essays.

May 30, Wednesday—Memorial Day—a holiday.

May 31, Thursday—Prize Debate.

June 4, Monday—Senior Examination will begin.

June 11, Monday—Annual Examination will begin.

June 16, Saturday—Last day for presenting Special Honor Theses, and for Special Honor Examinations.

June 19, Tuesday—Last day for presenting Rich Prize Essays.

June 22, Friday—Prize Declamations.

June 24, Sunday morning—Baccalaureate Sermon.

June 24, Sunday evening—University Sermon.

June 25, Monday morning—Announcement of Award of Prizes.

June 25, Monday afternoon—Class Day.

June 25, Monday evening—Meeting of the Board of Trustees.

1900.

- June 26, Tuesday morning—Business Meeting of the Phi Beta Kappa Society.
- June 26, Tuesday morning—Business Meeting of the Alumni Association.
- June 26, Tuesday afternoon—Reunion of Classes of 1850, '75, '85, '90, '93, '97.
- June 26, Tuesday afternoon—Social Receptions by the College Fraternities.
- June 27, Wednesday—COMMENCEMENT.
- June 28, Thursday—Examination of candidates for admission will begin.

VACATION OF THIRTEEN WEEKS.

- Sept. 25, Tuesday—Special Examination for students deficient at the Annual Examination.
- Sept. 26, Wednesday—Examination of candidates for admission will begin.
- Sept. 27, Thursday—First Term will begin.



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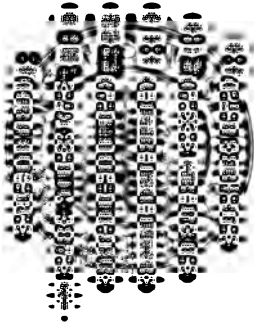
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M	1 8 15 22 29	M	- 7 14 21 28	M	- 3 10 17 24 X	M	- 7 14 21 28
T	2 9 16 23 30	T	1 8 15 22 29	T	4 11 18 25 X	T	1 8 15 22 29
W	3 10 17 24 31	W	2 9 16 23 30	W	- 5 12 19 26 X	W	2 9 16 23 30
T	4 11 18 25 X	T	3 10 17 24 31	T	- 6 13 20 27 X	T	3 10 17 24 31
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S	- 4 11 18 25	S	- 3 10 17 24	S	- 7 14 21 28	S	- 3 10 17 24
M	- 5 12 19 26	M	- 4 11 18 25	M	1 8 15 22 29	M	- 4 11 18 25
T	- 6 13 20 27	T	- 5 12 19 26	T	2 9 16 23 30	T	- 5 12 19 26
W	- 7 14 21 28	W	- 6 13 20 27	W	3 10 17 24 31	W	- 6 13 20 27
T	1 8 15 22 X	T	- 7 14 21 28	T	4 11 18 25 X	T	- 7 14 21 28
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S	3 10 17 24 31	S	7 14 21 28 X	S	3 10 17 24 X	S	2 9 16 23 30 X
APRIL		AUGUST		DECEMBER		APRIL	
S	1 8 15 22 29	S	- 5 12 19 26	S	- 2 9 16 23 30	S	- 7 14 21 28
M	2 9 16 23 30	M	- 6 13 20 27	M	- 3 10 17 24 31	M	1 8 15 22 29
T	3 10 17 24 X	T	- 7 14 21 28	T	- 4 11 18 25 X	T	2 9 16 23 30
W	4 11 18 25 X	W	1 8 15 22 29	W	- 5 12 19 26 X	W	3 10 17 24 31
T	5 12 19 26 X	T	2 9 16 23 30	T	- 6 13 20 27 X	T	4 11 18 25 X
F	6 13 20 27 X	F	3 10 17 24 31	F	- 7 14 21 28 X	F	5 12 19 26 X
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Frank Milton Baker,	<i>Leominster, Mass.</i>	<i>246 High St.</i>
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† Ira Chapman Doane,	<i>New Haven.</i>	186 College St.
Edward Warren Dorman,	<i>Stratford.</i>	64 N. C.
Ridgway Bowers Espy,	<i>Wilkes-Barre, Pa.</i>	250 High St.
† Arthur Sheldon Grant,	<i>Wapping.</i>	Φ. P. House.
† Alfred Augustine Gustafson,	<i>Middletown.</i>	88 Wyllys Ave.
† Clarence Frederic Hale,	<i>South Manchester.</i>	246 High St.
§ George Wilber Hartwell,	<i>Rochelle Park, N. J.</i>	Foss House.
Perry Sherman Howe,	<i>Chicopee Falls, Mass.</i>	33 N. C.
† Max Franklyn Howland,	<i>New Bedford, Mass.</i>	38 N. C.
Arthur Grant Hume,	<i>Hobart, N. Y.</i>	Φ. P. House.
§ William Stillwell Jackson,	<i>Brooklyn, N. Y.</i>	B. O. II. House.
§ William Nivinson Jennings, Jr.,	<i>New York, N. Y.</i>	37 N. C.
† Natt Madison Johnson,	<i>Albany, Vt.</i>	50 N. C.
Herbert Van Devanter Lacey,	<i>Cheyenne, Wyo.</i>	Δ. K. E. House.
John William Langdale,	<i>McDonald, Pa.</i>	Foss House.
Ralph Clinton Lathrop,	<i>Bridgeport.</i>	20 N. C.
Floyd Swallow Leach,	<i>Chinchilla, Pa.</i>	42 N. C.
Jacob Kimber Levan,	<i>Newlin, Pa.</i>	Gymnasium.
§ Robert Rathbun Lewis,	<i>Coudersport, Pa.</i>	Δ. K. E. House.
§ Walter Ricks Littell,	<i>Oxford, N. Y.</i>	X. Ψ. Lodge.
Harry Wilber Little,	<i>Laysburg, Pa.</i>	37 N. C.
Archibald Campbell McKillop,	<i>St. Albans, Vt.</i>	18 N. C.
William Edwards Hulbert Mathison,	<i>Springfield, Mass.</i>	Δ. K. E. House.
† Thomas Henry Montgomery,	<i>South Manchester.</i>	A. Δ. Φ. House.
§ Carl Stephen Mueller,	<i>Middletown.</i>	86 High St.
Ralph Norton,	<i>Jamaica, N. Y.</i>	250 High St.
† Lucius Loren Palmer,	<i>Malone, N. Y.</i>	17 N. C.
§ Jesse Lyndon Parker,	<i>Danversport, Mass.</i>	B. O. II. House.
Fletcher Hurst Parsons,	<i>Paterson, N. J.</i>	Φ. P. House.
§ Leland Stanford Pierson,	<i>Wilkes-Barre, Pa.</i>	X. Ψ. Lodge.
§ Martin Prucha,	<i>Cleveland, O.</i>	25 N. C.

NAMES.	RESIDENCES.	ROOMS.
Robert Henry Rippere,	<i>Patchogue, N. Y.</i>	<i>X. Y. Lodge.</i>
† Wallace Leveritt Root,	<i>Cromwell.</i>	<i>256 High St.</i>
† John Tanner Russell,	<i>N. Granville, N. Y.</i>	<i>Δ. K. E. House.</i>
Herbert Bronson Shonk,	<i>Plymouth, Pa.</i>	<i>250 High St.</i>
Harry Huntington Smith,	<i>Brattleboro, Vt.</i>	<i>Φ. P. House.</i>
Robinson Spencer,	<i>Philadelphia, Pa.</i>	<i>59 N. C.</i>
§ Lloyd Percy Stevens,	<i>York, Pa.</i>	<i>246 High St.</i>
George Franklin Strong,	<i>Natick, Mass.</i>	<i>4 N. C.</i>
Frank Vanhaag Stutsman,	<i>Harrisburg, Pa.</i>	<i>A. Δ. Φ. House.</i>
James Rogers Veitch,	<i>South Manchester.</i>	<i>30 N. C.</i>
§ John Christie Ware,	<i>Allendale, N. J.</i>	<i>Foss House.</i>
§ George Marvin Warner,	<i>East Berlin.</i>	<i>Foss House.</i>
William Hoyt Weber,	<i>Stamford.</i>	<i>Υ. T. House.</i>
Ernest Wrigley Woodruff,	<i>Waterbury.</i>	<i>44 N. C.</i>
Theodore Basil Young,	<i>Huntsville, N. J.</i>	<i>Φ. P. House.</i>
Mary Elizabeth Bagg,	<i>Brattleboro, Vt.</i>	<i>274 High St.</i>
§ Zelia Almira Cutler,	<i>West Acton, Mass.</i>	<i>78 Lawn Ave.</i>
§ Vivian Elaine Gladwin,	<i>Middletown.</i>	<i>271 Washington St.</i>
Faith Eleanor Hills,	<i>East Hampton.</i>	<i>East Hampton.</i>
§ Minnie Clara Rigby,	<i>Middletown.</i>	<i>12 Pearl St.</i>
§ Ethel Ray Sawyer,	<i>South Meriden.</i>	<i>238 High St.</i>

FRESHMAN CLASS.

NAMES.	RESIDENCES.	ROOMS.
Harry Leslie Agard,	<i>South Manchester.</i>	<i>29 N. C.</i>
Raymond Dinsmore Allen,	<i>E. Weymouth, Mass. 3 Brainerd Ave.</i>	
† Harry Clark Alvord,	<i>Bridgeport.</i>	<i>64 N. C.</i>
William Harvey Bath,	<i>St. Clair, Pa.</i>	<i>43 N. C.</i>
† Owen Chauncy Becker,	<i>Grosvenor's, N. Y.</i>	<i>X. Y. Lodge.</i>
Bowman Stone Beeman,	<i>West Brookfield, Mass.</i>	<i>31 N. C.</i>
† John Bentley, Jr.,	<i>Brooklyn, N. Y.</i>	<i>54 N. C.</i>
† Harry Varley Bingham,	<i>East Haddam.</i>	<i>16 N. C.</i>

NAMES.	RESIDENCES.	ROOMS.
§ John Starr Brooks,	<i>Moodus.</i>	<i>19 Cross St.</i>
Charles Guy Brown,	<i>Livermore Falls, Me.</i>	<i>51 Wyllys Ave.</i>
Roland Jay Bunten,	<i>Bridgeport.</i>	<i>61 N. C.</i>
§ James Edward Butler,	<i>Sackett's Harbor, N. Y.</i>	<i>88 Wyllys Ave.</i>
§ Ernest Clifford Chichester,	<i>Patchogue, N. Y.</i>	<i>45 N. C.</i>
Arthur Stanley Copeland,	<i>Addison, N. Y.</i>	<i>15 N. C.</i>
Myron Cady Cramer,	<i>Oncida, N. Y.</i>	<i>A. Δ. Φ. House.</i>
§ Benjamin Coe Crowell,	<i>Middletown.</i>	<i>28 Lawn Ave.</i>
§ Louis De Voursney Day,	<i>Morristown, N. J.</i>	<i>36 N. C.</i>
† Gerald Birch Demarest,	<i>Passaic, N. J.</i>	<i>35 N. C.</i>
John Francis Dunkerke,	<i>Clinton.</i>	<i>12 N. C.</i>
Allan Ferguson,	<i>Middletown.</i>	<i>100 High St.</i>
Frank Pearl Fletcher,	<i>Plymouth, N. H.</i>	<i>88 Wyllys Ave.</i>
† Ralph John Folsome,	<i>East Livermore, Me.</i>	<i>171 High St.</i>
§ Frank Nugent Freeman,	<i>Ontario, Cal.</i>	<i>47 N. C.</i>
Harry Nichols French,	<i>Nichols.</i>	<i>61 N. C.</i>
Charles Henry Garrison,	<i>Vineland, N. J.</i>	<i>36 N. C.</i>
John McGregor Gibb, Jr.,	<i>Philadelphia, Pa.</i>	<i>16 N. C.</i>
Asa Russell Gifford,	<i>Bristol, R. I.</i>	<i>31 N. C.</i>
§ Robert Wallace Gillispie,	<i>Brooklyn, N. Y.</i>	<i>62 N. C.</i>
§ Jacob Arthur Glasier,	<i>Orange, N. J.</i>	<i>15 N. C.</i>
† Kenneth Mackerness Goode,	<i>Middletown.</i>	<i>270 College St.</i>
† William Graham,	<i>Arthur, Ont., Can.</i>	<i>51 Wyllys Ave.</i>
Benjamin Wright Guernsey,	<i>Winchester, Mass.</i>	<i>58 N. C.</i>
† Henry Chauncey Guernsey,	<i>Winchester, Mass.</i>	<i>58 N. C.</i>
§ Clarence Brainerd Guy,	<i>Middletown.</i>	<i>63 N. C.</i>
Clifford Watson Hall,	<i>New Canaan.</i>	<i>55 N. C.</i>
† Wilbor Butler Harlow,	<i>Brooklyn.</i>	<i>27 N. C.</i>
Clarence Rufus Hickok,	<i>Wilkes-Barre, Pa.</i>	<i>39 N. C.</i>
§ Ernest George Nosworthy Holmes,	<i>Wilkes-Barre, Pa.</i>	<i>Foss House.</i>
§ Samuel Foss Holmes,	<i>Kent's Hill, Me.</i>	<i>51 Wyllys Ave.</i>
† Merritt Judson Hopkins,	<i>Miller's Place, N. Y.</i>	<i>6 N. C.</i>
Roy Smith Hurd,	<i>Westminster Depot, Mass.</i>	<i>17 Cross St.</i>
§ Olin Ingraham,	<i>Brooklyn, N. Y.</i>	<i>178 Church St.</i>
† Charles Everett Jacobs,	<i>Lynn, Mass.</i>	<i>9 N. C.</i>
Edwin Chester Jones,	<i>Brooklyn, N. Y.</i>	<i>62 N. C.</i>
§ Daniel Clarke Joyce,	<i>Brookfield.</i>	<i>B. O. Π. House.</i>
Ralph Welles Keeler,	<i>Windsor.</i>	<i>50 N. C.</i>

NAMES.	RESIDENCES.	ROOMS.
† Walter Palmer Keeler,	<i>Malone, N. Y.</i>	17 N. C.
Robert Sargent Kinney,	<i>Yarmouth, N. S., Can.</i>	49 N. C.
† Wilbur Carlton Knowles,	<i>Washington.</i>	<i>Foss House.</i>
Howard Fifield Legg,	<i>Worcester, Mass.</i>	29 N. C.
§ Patrick Joseph McDonnell, Jr.,	<i>Archbald, Pa.</i>	51 N. C.
§ Edgar MacNaughten,	<i>Montclair, N. J.</i>	19 N. C.
§ Robert Orville Matthews,	<i>Paterson, N. J.</i>	Φ. P. House.
† Thomas James Molumphy,	<i>Berlin.</i>	35 N. C.
Charles Weatherwax Nethaway,	<i>Schenectady, N. Y.</i>	51 N. C.
† George Merriam Newell,	<i>Uxbridge, Mass.</i>	11 N. C.
Paul Nixon,	<i>Braintree, Mass.</i>	4 N. C.
§ Charles Crane Norton,	<i>Phelps, N. Y.</i>	34 N. C.
† Hermon Frederick Onthrup,	<i>Middletown.</i>	<i>Long Hill.</i>
Howard Stimson Packard,	<i>Springfield, Mass.</i>	45 N. C.
† Frederick Leon Phelps,	<i>Acworth, N. H.</i>	17 Cross St.
§ Ray Nathan Randall,	<i>Anson, Me.</i>	9 N. C.
§ Harold Bradford Raymond,	<i>Middletown.</i>	311 High St.
Samuel Talcott Reynolds,	<i>Middletown.</i>	361 High St.
Howard MacMillan Richard,	<i>New York, N. Y.</i>	52 N. C.
† Clayton Meriden Richardson,	<i>Waitsfield, Vt.</i>	27 N. C.
† George Rucker,	<i>Brooklyn, N. Y.</i>	10 N. C.
Moses Rogers,	<i>South Manchester.</i>	33 N. C.
§ Stetson Kilbourne Ryan,	<i>Middletown.</i>	241 Court St.
Charles Wesley Santee,	<i>West Pittston, Pa.</i>	43 N. C.
Ernest Walter Schmidt,	<i>South Manchester.</i>	30 N. C.
John Ferdinand Schneider,	<i>Scranton, Pa.</i>	X. Y. Lodge.
† Edwin Henry Schutt,	<i>New York, N. Y.</i>	<i>Foss House.</i>
§ Harry Gregory Seides,	<i>Binghamton, N. Y.</i>	55 N. C.
† Irwin Wint Severson,	<i>West Pittston, Pa.</i>	43 N. C.
§ Harry Gustav Shailer,	<i>Middletown.</i>	70 Loveland St.
Tracy Smith,	<i>Waterbury.</i>	44 N. C.
Edward Lindsley Stasse,	<i>East Orange, N. J.</i>	15 N. C.
Frank Chillson Stevens,	<i>Hartland, Vt.</i>	<i>Foss House.</i>
§ Charles Akin Stone,	<i>Troy, N. Y.</i>	53 N. C.
† Francis Lambert Thornberry,	<i>Bridgeport.</i>	47 N. C.
§ Clarence Howard Tryon,	<i>Meriden.</i>	39 N. C.
§ Warren Sutcliffe Wallace,	<i>Montclair, N. J.</i>	19 N. C.
Henry Adelbert White,	<i>Pompey Centre, N. Y.</i>	6 N. C.

NAMES.	RESIDENCES.	ROOMS.
David Day Whitney,	<i>East Brookfield, Vt.</i>	<i>Foss House.</i>
Harold Edmund Wilson,	<i>Penacook, N. H.</i>	49 N. C.
§ James Elijah Wilson,	<i>Middletown.</i>	63 N. C.
Myron John Wilson,	<i>East Troupsburg, N. Y.</i>	246 High St.
Frank Orville Winslow,	<i>Whitefield, N. H.</i>	10 N. C.
Watson Woodruff,	<i>Berlin.</i>	12 N. C.
§ Helen Veronica Bransfield,	<i>Portland.</i>	<i>Portland.</i>
§ Amy Eliza Davis,	<i>Middletown.</i>	299 College St.
Julia Teresa Donahoe,	<i>Middletown.</i>	350 Washington St.
† Annie Fisher,	<i>Hartford.</i>	<i>Hartford.</i>
Ada Catharine Fritts,	<i>Stewartsville, N. J.</i>	274 High St.
§ Helen Louise Gilbert,	<i>Newfield.</i>	<i>Newfield.</i>
§ Margaret Bacon Griswold,	<i>Wethersfield.</i>	238 High St.
Ethel Gertrude Reynolds,	<i>Middletown.</i>	246 College St.
Mary Elizabeth Smith,	<i>Portland.</i>	<i>Portland.</i>
Marguerite van Benschoten,	<i>Middletown.</i>	231 High St.
§ Elizabeth Matilda Veazey,	<i>Middletown.</i>	247 College St.
† Blanche Evelyn Welch,	<i>Hartford.</i>	<i>Hartford.</i>
§ Lena Alta Whitmore,	<i>Higginnum.</i>	274 High St.

SPECIAL STUDENTS.

NAMES.	RESIDENCES.	ROOMS.
Arthur Willis Barton,	<i>Seattle, Wash.</i>	Φ. P. House.
Ernest Merriam Churchill,	<i>Middletown.</i>	<i>Foss House.</i>
Charles Harvey Northam, Jr.,	<i>Hartford.</i>	A. Δ. Φ. House.
Joseph Brown Sessions,	<i>Bristol.</i>	X. Ψ. Lodge.
Ernest Melville Swett,	<i>South Paris, Me.</i>	17 Cross St.
Charlotte Robinson Manning,	<i>Meriden.</i>	274 High St.
Alice Jennette Raymond,	<i>Middletown.</i>	311 High St.

SUMMARY.

	MEN.	WOMEN.	TOTAL.
GRADUATE STUDENTS, - - - - -	11	1	12
SENIORS, - - - - -	53	16	69
JUNIORS, - - - - -	57	19	76
SOPHOMORES, - - - - -	77	6	83
FRESHMEN, - - - - -	90	13	103
SPECIAL STUDENTS, - - - - -	5	2	7
TOTAL, - - - - -	293	57	350

ABBREVIATIONS.

N. C., - - - - -	North College.
S. C., - - - - -	South College.
O. H., - - - - -	Observatory Hall.
J. H., - - - - -	Judd Hall.
§ - - - - -	Latin-Scientific Course.
† - - - - -	Scientific Course.

GENERAL STATEMENT.

COURSES OF STUDY.—The College presents to its undergraduate students the option of three parallel courses of study, each extending through four years, named respectively the Classical Course, the Latin-Scientific Course, and the Scientific Course.

In the Classical Course, the study of Latin and Greek forms a large part of the required work of the first year. In the Latin-Scientific Course, Greek is omitted, and, in the Scientific Course, both Greek and Latin are omitted, in order to give more extended opportunity for the study of modern languages, science, and literature.

REQUIRED AND ELECTIVE STUDIES.—In each of the foregoing courses, nearly all the studies of the first year are required. In the three remaining years, the amount of required work is progressively diminished, the student being allowed to complete his quota by selecting from a wide range of elective studies. He is expected, however, to regulate his choice so that his electives will together form an harmonious and symmetrical course of study; and in no case is a student allowed to select a study which he is not, in the judgment of his instructors, qualified to pursue with advantage.

SPECIAL COURSES.—Students who do not desire to complete any one of the foregoing courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood that this provision is intended for the benefit, not of those students who are incompetent to take one of the regular courses, but of those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended

courses of study in particular departments. Such special students will be expected to attend all exercises assigned them, and will be subject to all the general rules of the college.

GRADUATE STUDIES.—Extended instruction is given to those who wish to pursue graduate courses of study in any of the departments. Further information concerning such graduate courses is given in the reports of the several departments on Courses of Instruction, and also in connection with the statement of conditions for the degrees of Master of Arts and Master of Science.



TERMS OF ADMISSION.

CLASSICAL COURSE.*

Candidates for admission to the Classical Course are examined in the following subjects:—

- LATIN.—1. Latin grammar, including prosody.
2. Caesar,—Gallic War, books I.–IV.
3. Cicero,—the four orations against Catiline, and those for Archias and for the Manilian Law.
4. Vergil,—Eclogues, and Æneid, books I.–VI.
5. Translation at sight into English of passages of Latin, both prose and poetry, of average difficulty.
6. Translation into Latin of simple English sentences and of easy narrative passages based on the prose authors read.

With the passages set under headings 5 and 6, a vocabulary of the less common words is supplied.

In place of the requirements specified under headings 2, 3, and 4, equivalent readings will be accepted, but, in general, prose will not be accepted instead of poetry, nor *vice versa*.

The Roman system of pronunciation is exclusively used in all the Latin work of the college course, and it is expected that applicants for admission will be well versed in it. A brief scheme of approximately equivalent sounds in English is here given: *a* is pronounced as in *father*, *e* as in *they*, *i* as in *machine*, *o* as in *tone*, *u* as *oo* in *boot* (the long and short vowels have the same quality of sound, but the latter are pronounced in less time than the former); *ae* as *ay*, *au* as *ou* in *out*, *ei* as in *eight*, *eu* as in *feud*, *oe* as *oi* in *boil*, *ui* as in *quit*; *c* and *g* always as in *come* and *get*, *s* always as in *sin*, *j* as *i* in *valiant*, *v* as *w* in *wit*, *y* as French *u* or German *ü*, *x* as *ks*, *z* as *ds*, *r* always trilled, *ch*, *ph*, and *th* as *c*, *p*, and *t* with the aspiration following, as in *hack-hire*, *haphazard*, *boat-hook*; other consonants as in English.

* For announcement of prize for excellence in the studies preparatory to admission, see "Ayres Prize."

It is urged that candidates be well drilled in the observance of the laws of quantity in oral reading, especially in Vergil and Ovid.

GREEK.—1. Greek grammar, including prosody,—Hadley-Allen's or Goodwin's.

2. Xenophon,—Anabasis, books I.—IV.

3. Homer,—Iliad, books I.—III.

4. Translation at sight of one or more passages from Xenophon.

5. Translation into Greek of easy narrative passages based on the required books of the Anabasis.

ANCIENT HISTORY AND GEOGRAPHY.—1. History of Rome to the death of Marcus Aurelius.

2. History of Greece to the capture of Corinth, 146 B. C.

3. Ancient geography.

The following books are recommended as the basis of instruction in ancient history and geography:—

1. Allen's Short History of the Roman People (Part II. of Myers and Allen's Ancient History), pp. 1-275.

2. Botsford's History of Greece.

3. Tozer's Primer of Ancient Geography.

Familiarity with map-drawing is also especially desirable.

MATHEMATICS.—1. Algebra,—Fundamental operations, factors, common divisors and multiples, fractions, negative quantities and the interpretation of negative results, powers and roots, the binomial theorem for positive integral exponents, radicals, equations of the first and second degrees with one or more unknown quantities, putting problems into equations, ratios and proportions, variation, arithmetical, geometrical, and harmonical progressions.

2. Plane geometry,—Demonstrations, constructions, and solutions of numerical problems.

ENGLISH.—1. *Reading and Practice*. A limited number of books are assigned for reading. The candidate is required to present evidence of a general knowledge of the subject-matter of these books, and to answer simple questions on the lives of their authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and calls

for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present an exercise book, properly certified to by his instructor, containing compositions or other written work done in connection with the reading of the books. In preparation for this part of the requirement, it is important that the candidate shall have been instructed in the fundamental principles of rhetoric.

The books set for this part of the examination will be:—

1901 and 1902—Shakspeare's Merchant of Venice; Pope's Iliad, Books I., VI., XXII., and XXIV.; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's Vicar of Wakefield; Coleridge's Ancient Mariner; Scott's Ivanhoe; Cooper's Last of the Mohicans; Tennyson's Princess; Lowell's Vision of Sir Launfal; George Eliot's Silas Marner.

1903, 1904, and 1905—Shakspeare's Merchant of Venice and Julius Caesar; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's Vicar of Wakefield; Coleridge's Ancient Mariner; Scott's Ivanhoe; Carlyle's Essay on Burns; Tennyson's Princess; Lowell's Vision of Sir Launfal; George Eliot's Silas Marner.

2. *Study and Practice.* A smaller number of books are assigned for more careful study. The examination upon these books covers subject-matter, form, and structure, and also tests the candidate's ability to express his knowledge with clearness and accuracy. In addition, the candidate may be required to answer questions involving the essentials of English grammar, and questions on the leading facts in those periods of English literary history to which the prescribed works belong.

The books set for this part of the examination will be:—

1901 and 1902—Shakspeare's Macbeth; Milton's Lycidas, Comus, L'Allegro, and Il Penseroso; Burke's Speech on Conciliation with America; Macaulay's Essays on Milton and on Addison.

1903, 1904, and 1905—Shakspeare's Macbeth; Milton's Lycidas, Comus, L'Allegro, and Il Penseroso; Burke's Speech on Conciliation with America; Macaulay's Essays on Milton and on Addison.

NOTE.—No candidate will be accepted in English whose work is notably defective in point of spelling, punctuation, idiom, or division into paragraphs.

LATIN-SCIENTIFIC COURSE.

Candidates for admission to the Latin-Scientific Course are examined in the following subjects:—

LATIN.—Same requirements as for the Classical Course.

ANCIENT HISTORY AND GEOGRAPHY.—Same requirements as for the Classical Course, including Greek history and geography.

MATHEMATICS.—Same requirements as for the Classical Course.

ENGLISH.—Same requirements as for the Classical Course.

Four additional courses, to be selected from the following list (provided that at least one course in modern languages must be selected):—

1. ELEMENTARY FRENCH (counting as two courses).—Such a knowledge of the language is required as may be obtained by the reading of at least 400 pages, part of which should be read at sight. The examination consists of easy passages at sight, elementary grammatical questions, and the translation of simple English sentences into French. To meet this requirement two years' work will generally be necessary.

2. ELEMENTARY GERMAN (counting as two courses).—Such a knowledge of the language is required as may be obtained by the reading of at least 300 pages, part of which should be read at sight. The examination consists of easy passages at sight, elementary grammatical questions, and the translation of simple English sentences into German. To meet this requirement two years' work will generally be necessary.

3. ADVANCED FRENCH.—The requirement includes the reading of at least 400 additional pages of French (not more than half of which should be fiction), and regular practice in writing and speaking French. At least one additional year of study will be necessary to meet this requirement.

4. ADVANCED GERMAN.—The requirement includes the reading of at least 300 additional pages of German (not more than half of which should be fiction), and regular practice in writing and speaking German. At least one additional year of study will be necessary to meet this requirement.

5. ADVANCED MATHEMATICS (counting as two courses).—(1) Solid geometry. (2) Plane trigonometry, with the use of logarithmic and trigonometric tables. (3) Analytical geometry,—the straight line, the circle, and elementary properties of the conic sections.

6. PHYSICAL GEOGRAPHY AND BOTANY.—(1) In physical geography, such a knowledge of the subject is required as may be gained from the study of Geikie's Elementary Lessons in Physical Geography, Tarr's Elementary Physical Geography, Davis and Snyder's Physical Geography, or Hinman's Eclectic Physical Geography.

(2) In botany, the candidate must show such a knowledge of the subject as may be gained from either (1) the study of morphological and structural botany, as included in the more recent elementary botanical text-books of Spaulding or Bergen; or (2) the study of Gray's Lessons in Botany, accompanied by analysis and description of flowers.

7. PHYSICS.—(1) Such a knowledge of the subject is required as may be gained from Carhart and Chute's Elements of Physics, Gage's Elements of Physics, Avery's School Physics, Appleton's School Physics, Wentworth and Hill's Text-book of Physics, or Hoadley's Brief Course in Physics.

(2) The candidate must also have performed a series of at least thirty experiments *involving careful measurements*, in addition to any qualitative or very simple quantitative experiments he may have performed, and must present his original note-book, containing full records of the experiments, and certified to by his instructor. Such experiments as the exercises in Hall and Bergen's Text-book of Physics, the experiments in Chute's Physical Laboratory Manual, or the quantitative experiments in Stone's Experimental Physics, will be considered satisfactory.

8. CHEMISTRY.—(1) Such a knowledge of the subject is required as may be gained from Storer and Lindsay's Manual of Chemistry (omitting pp. 230-286), or from Remsen's Chemistry, Elementary Course.

(2) The candidate must also have performed a series of at least fifty experiments, and must present his original note-book, containing records of the processes and results of the experiments, and certified to by his instructor.

9. HISTORY OF ENGLAND AND OF THE UNITED STATES.—Such a knowledge of the subject is required as may be gained from Montgomery's Leading Facts of English History, and Johnston's History of the United States for Schools or Montgomery's Leading Facts of American History.

SCIENTIFIC COURSE.

Candidates for admission to the Scientific Course are examined in the following subjects:—

MATHEMATICS.—Same requirements as for the Classical Course.

ENGLISH.—Same requirements as for the Classical Course.

HISTORY OF ENGLAND AND OF THE UNITED STATES, as specified on page 31.

Eight additional courses, to be selected from the following list (provided that at least one course in modern languages and at least one course in natural science must be selected):—

1. ELEMENTARY LATIN (counting as two courses).—Grammar, Caesar's Gallic War, books I.–IV.; translation into Latin of simple English sentences.

2. ADVANCED LATIN.—(1) *Either* Cicero,—the four orations against Catiline, and those for Archias and for the Manilian Law; *or* Vergil,—Eclogues, and Æneid, books I.–VI. (2) Translation at sight into English of passages of easy narrative prose Latin.

3. ADVANCED MATHEMATICS (counting as two courses), as specified on page 30.

4. ELEMENTARY FRENCH (counting as two courses), as specified on page 30.

5. ELEMENTARY GERMAN (counting as two courses), as specified on page 30.

6. ADVANCED FRENCH, as specified on page 30.

7. ADVANCED GERMAN, as specified on page 30.

8. PHYSICAL GEOGRAPHY AND BOTANY, as specified on page 31.

9. PHYSICS, as specified on page 31.

10. CHEMISTRY, as specified on page 31.

SPECIAL COURSES.

Special students, not candidates for a degree, may be admitted, upon passing such examinations as the Faculty shall in each case prescribe.

GENERAL REGULATIONS CONCERNING ADMISSION.

ADVANCED STANDING.—All candidates for advanced standing are examined in the preparatory studies, and also in those previously pursued by the classes they propose to enter, or in other studies equivalent to them. No candidate can be admitted later than at the beginning of the Senior year.

PRELIMINARY EXAMINATIONS.—A candidate for admission may obtain a preliminary record a year or more in advance of the time at which he expects to enter college, on condition of passing, in the June and September examinations of any year taken together, in the equivalent of at least half of the requirements for admission. Teachers and prospective candidates for admission may obtain from the Secretary of the Faculty on demand a schedule of the values which will be assigned to each subject by the Faculty in determining the question of a student's preliminary record.

DATE AND PLACE OF EXAMINATIONS.—The regular examination for admission is held on the Thursday and Friday of Commencement week. Candidates must present themselves at South College at 9 A. M. on the former day. A second examination is held, commencing on the day preceding the first day of the first term. Candidates may be examined in Philadelphia, Cleveland, Cincinnati, or Chicago, provided they make application to the President before June 1. The time of these examinations will be Thursday and Friday of Commencement week. If no applications are received before June 1, these examinations will not be held.

ADMISSION BY CERTIFICATE.—Certificates covering the foregoing requirements for admission to college are received from certain schools of good standing, which have been approved by the Faculty. Hereafter the privilege of certification will not be given to schools which require less than four years of Latin and three years of Greek in their college preparatory course.

Diplomas (but not certificates) issued by the Regents of the University of the State of New York, and pass cards supplementary to such diplomas, will be received in lieu of examination in the subjects which they cover.

Students entering by certificate are considered as on trial until the completion of the mid-year examinations. A student admitted to college on certificate, who is dismissed during his Freshman year on

account of inability to keep up with his class, must take examinations in all subjects required for admission, in case he desires to return to college.

Detailed information concerning admission by certificate may be obtained on application to the President, or to the Secretary of the Faculty.

ADMISSION OF WOMEN.—At their annual meeting in June, 1900, the Trustees of the University passed the following resolution: "The University will admit women in a number limited to those who can be accommodated in the college buildings and in their own homes in Middletown, and the number in the University shall be limited to twenty per cent. of the whole number of students in the preceding year."

In view of the limitation of the number of women to be admitted, all women desiring admission should, if possible, make application to the Secretary of the Faculty before June 15th, though applications made later will in some cases be considered.

Miss A. A. Fisher, M. A., Dean of Women, has general oversight of the interests of the women students, and correspondence from women on all matters, except admission, course of study, and tuition scholarships, should be addressed to her.

All candidates for admission must present satisfactory testimonials of good moral character; and certificates of regular dismission will be required from those who have been members of other colleges.



COURSES OF INSTRUCTION.

For regulations concerning selection of studies, see page 69.

The figures ¹ or ² following the number of a course indicate respectively that the course is offered for the first or the second half-year.

The place of meeting of each course is indicated by means of the following abbreviations: N. C.=North College; S. C.=South College; L. CH.=Lower Chapel; L. CH. 2=Small recitation room, Lower Chapel; J. H.=Judd Hall; O. H.=Observatory Hall; CHEM. LAB., PHYS. LAB., BIOL. LAB.=Chemical, Physical, Biological Laboratory.

The Roman numerals in parenthesis following each course indicate the examination group to which it is assigned. For table of groups, see pages 67 and 68.

An asterisk prefixed to the number of a course indicates that it can be elected only with the previous approval of the instructor.

LATIN.

PROFESSOR MERRILL; ASSOCIATE PROFESSOR NICOLSON; DR. LEASE.

Of the courses indicated below I.-VII. are given every year, while of VIII.-XIX. each is given every second year, the bracketed courses being omitted the present year.

I. LIVY,—Books 21 and 22 (*first half-year*). TERENCE,—*Andria*; PLAUTUS,—*Captivi*; CICERO,—*De Senectute* (*second half-year*). Exercises in sight translation and in prose composition throughout the year. SECTION 1, *Mon., Wed., Th., Fri., at 9*; SECTION 2, *Mon., Wed., Th., Fri., at 11*; SECTION 3, *Mon., Wed., Th., Fri., at 12*. 5 S. C. PROFESSOR NICOLSON AND DR. LEASE. (II.)
Course I. is required of Classical and Latin-Scientific Freshmen.

II.¹ CICERO,—Selected Letters. *Tu., Th., at 9 (first half-year)*.
3 S. C. PROFESSOR MERRILL. (VIII.)

III.² PLINY THE YOUNGER,—Selected Letters. *Tu., Th., at 9 (second half-year)*. 3 S. C. PROFESSOR MERRILL. (VIII.)

IV.¹ OVID, TIBULLUS, PROPERTIUS,—Selections. *Tu., Th., at 3 (first half-year)*. 5 S. C. DR. LEASE. (XII.)

V.² HORACE,—Odes and Epodes. *Tu., Th., at 3 (second half-year).* 5 S. C. DR. LEASE. (XII.)

VI. LATIN PROSE COMPOSITION. The course begins with the systematic study of the elementary principles of Latin rhetoric, accompanied by brief practical exercises, and proceeds, in the second half-year, to the rendering into Latin of connected passages of modern historical and epistolary prose. *Mon., at 3.* 3 S. C. DR. LEASE.

Courses II.—VI. are elective for those who have taken Course I. Courses I., VI., and any two of courses II.—V. are required of candidates for preliminary honors in classics. Prospective candidates for such honors are advised to elect Course VI. in the Sophomore year.

VII. LATIN PROSE COMPOSITION. A course in continuation of Course VI., and involving original composition in Latin on historical, descriptive, and argumentative themes. *Wed., at 3.* 3 S. C. DR. LEASE.

Course VII. is elective for those who have taken Course VI.

[VIII. LATIN PROSE OF THE EMPIRE. A course of readings of representative selections from the works of prose authors of the Imperial period not included in other courses. The readings cover considerable amounts, and are accompanied by illustrative lectures, and by some collateral, individual study. *Twice a week.* PROFESSOR MERRILL.]

Course VIII. is elective for those who have taken at least two of Courses II.—V. It is omitted the present year.

IX. LATIN POETRY OF THE EMPIRE. A course similar to Course VIII., but covering poetry instead of prose. *Tu., Th., at 11 (first half-year).* 40 N. C. PROFESSOR MERRILL. *Tu., Th., at 11 (second half-year).* 2 S. C. PROFESSOR NICOLSON. (X.)

Course IX. is elective for those who have taken at least two of Courses II.—V.

[X.¹ ROMAN SATIRE,—from Ennius to Horace. A brief course of introductory lectures on the nature and early history of Roman satire, followed by illustrative readings from the extant fragments of the satires of Ennius, Lucilius, and Varro, and from the most characteristic satires of Horace. *Twice a week (first half-year).* PROFESSOR MERRILL.]

Course X. is elective for those who have taken at least two of Courses II.—V. It is omitted the present year.

[XI.² ROMAN SATIRE. A course in continuation of Course X., with readings from the satires of Petronius, Seneca, Persius, and Juvenal. *Twice a week (second half-year)*. PROFESSOR NICOLSON.]

Course XI. is elective for those who have taken at least two of Courses II.-V. It is omitted the present year.

[XII.¹ LUCRETIIUS,—Books 1 and 3, and selections from the other books. *Twice a week (first half-year)*. PROFESSOR NICOLSON.]

Course XII. is elective for those who have taken at least two of Courses II.-V. It is omitted the present year.

[XIII.² CATULLUS. *Twice a week (second half-year)*. PROFESSOR MERRILL.]

Course XIII. is elective for those who have taken at least two of Courses II.-V. It is omitted the present year.

XIV.¹ OVID,—the Fasti, with especial attention to questions of Roman history and ritual. *Tu., Th., at 12 (first half-year)*. PROFESSOR NICOLSON. 3 S. C. (XI.)

Course XIV. is elective for those who have taken at least two of Courses II.-V.

XV.² TACITUS,—selections from the Annals I.-VI., designed to illustrate the author's conception of the character of Tiberius, and of the upbuilding of the principate. *Tu., Th., at 12 (second half-year)*. PROFESSOR MERRILL. 3 S. C. (XI.)

Course XV. is elective for those who have taken at least two of Courses II.-V.

XVI.¹ LATIN EPIGRAPHY. An introductory course, with especial attention to inscriptions of historical interest. The course is prefaced by a brief survey of the general classes and formal characteristics of Latin inscriptions, based upon Egbert's Introduction. *Wed., Fri., at 9 (first half-year)*. 40 N. C. PROFESSOR MERRILL. (II.)

Course XVI. is elective for those who have taken at least two of Courses II.-V.

XVII.² LATIN PALAEOGRAPHY AND CRITICISM. A course of lectures upon the rudiments of Latin palaeography, accompanied by practical exercises and demonstrations, with the use of facsimiles, and followed by a few lectures on the general principles of text criticism, with the study of simple and typical problems in that field. *Wed., Fri., at 9 (second half-year)*. 40 N. C. PROFESSOR MERRILL. (II.)

Course XVII. is elective for those who have taken at least two of Courses II.-V.

[XVIII. ROMAN TOPOGRAPHY AND PUBLIC BUILDINGS. A course of lectures, illustrated by photographs, engravings, and lantern-slides, and requiring some collateral study of original and of secondary authorities, and the careful preparation of note-books. *Twice a week.* PROFESSOR MERRILL.]

XIX. ROMAN PRIVATE LIFE AND SOCIAL INSTITUTIONS. A course of lectures, illustrated by photographs, engravings, and lantern-slides, and requiring some collateral study of original and of secondary authorities, and the careful preparation of note-books. *Mon., Wed., at 12.* 40 N. C. PROFESSOR MERRILL. (V.)

Courses XVIII. and XIX. are elective for those who have taken Course I. They are given in alternate years, Course XVIII. being omitted the present year.

In addition to the courses above specified, at least one other course of two hours a week for the year will be given each year by Professor Merrill on the application of at least three students, provided such application is made before Commencement; and the subject of this additional course may be determined according to the wishes or attainments of the applicants.

For the most successful prosecution of even the earlier courses in Latin, ability to read German prose on philological subjects is decidedly advantageous, and for Courses XVI.-XIX. it is necessary. Students, therefore, who look forward to the study of Latin beyond the more elementary courses, and who have on admission to college no acquaintance with German, should devote especial attention to that subject in the Freshman year.

GREEK

PROFESSOR VAN BENSCHOTEN; ASSOCIATE PROFESSOR PATON.

I. LYSIAS,—Select Orations; PLATO,—Apology and Crito (*first half-year*). HOMER,—Odyssey (*second half-year*). Exercises in Greek composition and in translation at sight. SECTION 1, *Tu., Wed., Th., Fri., at 9*; SECTION 2, *Tu., Wed., Th., Fri., at 10.* 2 S. C. PROFESSOR PATON. (III.)

Course I. is required of Classical Freshmen.

II. DEMOSTHENES,—Philippics. PLUTARCH,—Life of Demosthenes. Collateral reading in Greek history (*first half-year*). SOPHOCLES,—Lectures and collateral readings on the Attic theatre and on the Oedipus legend in the Greek dramatists (*second half-year*). Tu., Th., at 12. 2 S. C. PROFESSOR PATON. (XI.)

Course II. is elective for those who have taken Course I. It is required of candidates for preliminary honors in classics.

III. THE LIFE AND LANGUAGE OF THE GREEKS. Tu., at 11. 3 S. C. PROFESSOR VAN BENSCHOTEN. (X.)

Course III. is elective for those who take, or have taken, Course II. It is required of candidates for preliminary honors in classics.

IV. GREEK COMEDY. The Frogs and the Acharnians of Aristophanes (*first half-year*). GREEK TRAGEDY. Æschylus, Sophocles, Euripides (*second half-year*). One meeting each week is devoted to special studies in the Greek language and literature. Mon., Wed., Fri., at 8. 3 S. C. PROFESSOR VAN BENSCHOTEN. (I.)

Course IV. is elective for those who have taken Courses I. and II., and who take, or have taken, Course III.

[V. GREEK COMEDY. The Clouds of Aristophanes (*first half-year*). Xenophon; Greek Drama (*second half-year*). One meeting each week is devoted to special studies in the Greek language and literature. *Three times a week*. PROFESSOR VAN BENSCHOTEN.]

Course V. is elective for those who have taken Courses I. and II., and who take, or have taken, Course III.

Courses IV. and V. are given in alternate years, Course V. being omitted the present year.

[VI. BIBLICAL GREEK. The text used is Scrivener's New Testament in Greek, with the Revisers' Readings. Collateral studies; texts and translations. *Twice a week*. PROFESSOR VAN BENSCHOTEN.]

Course VI. is elective for those who have taken Course II. It is given in alternate years, being omitted the present year.

VII. PINDAR; BACCHYLIDES; Lyric Poetry (*first half-year*). LUCIAN; PAUSANIAS; Neo-Hellenic,—with collateral work on the geography and topography of Greece (*second half-year*). One meeting each week is devoted to special advanced studies in the Greek language and literature. Mon., at 10, Wed., at 12, Fri., at 9. 3 S. C. PROFESSOR VAN BENSCHOTEN.

Course VII. is elective for those who have taken either Course IV. or Course V.

[VIII. SEMINARY FOR THE STUDY OF GREEK ARCHÆOLOGY. *Once a week.* PROFESSOR VAN BENSCHOTEN.]

Course VIII. is elective for those who have taken Courses I. and II., and who take, or have taken, Course III.

IX. GREEK LITERATURE. Lectures and collateral reading. *Fri., at 12.* 3 S. C. PROFESSOR VAN BENSCHOTEN. (V.)

Course IX. is elective for those who have taken Courses I. and II., and who take, or have taken, Course III.

Courses VIII. and IX. are given in alternate years, Course VIII. being omitted the present year.

X. GREEK ANTIQUITIES. The home life of the Greeks; the house, food, dress, family, and social customs (*first half-year*). The public life of the Greeks; education, trade, government, military and naval organization, religion and worship (*second half-year*). Lectures, collateral reading, and brief reports upon special topics. The third hour is used for illustration by means of lantern slides. *Tu., at 4, Th., at 2, and a third hour at the pleasure of the instructor, the course counting as two hours a week.* 2 S. C. PROFESSOR PATON.

Course X. is elective for those who have taken Course II.

For Greek history, see Course II. in history.

It is very desirable that those who elect the advanced courses in Greek should be able to read German prose on philological subjects.

GERMAN.

ASSOCIATE PROFESSOR FAUST; MR. OSTRANDER.

I. ELEMENTARY GERMAN. Harris's German Lessons, Hewett's German Reader. Heyse,—L'Arrabbiata; Storm,—Immensee; Wildenbruch,—Das edle Blut; Zschokke,—Das Abenteuer der Neujahrsnacht, Der zerbrochene Krug; Fouqué,—Undine. Vos's Materials for German Conversation. Thomas's Practical German Grammar. SECTION 1, *Mon., Wed., Fri., at 8.* 12 S. C. PROFESSOR FAUST. SECTION 2, *Mon., Wed., Fri., at 11.* 6 S. C. MR. OSTRANDER. (I.)

For rules in regard to the election of I. German, see page 44.

II. ADVANCED GERMAN. READINGS. Classical: Schiller,—Wilhelm Tell; Lessing,—Minna von Barnhelm; Goethe,—Hermann und Dorothea; Heine's Prose (Macmillan); Freytag,—Aus dem Staat Friedrichs des Grossen. At sight: Seidel,—Novellen; Chamisso,—Peter Schlemihl. PROSE COMPOSITION AND GRAMMAR. Harris's Selections for German Composition. Thomas's Practical German Grammar. *Mon., Wed., Fri., at 11.* 11 S. C. PROFESSOR FAUST. (IV.)

Course II. is elective for those who have taken Course I.

III. GERMAN CONVERSATION. For acquiring a vocabulary and readiness in the use of German, Meissner's Practical Lessons in German Conversation serves in part as guide. All class exercises are conducted in the German language. Readings and lectures in German are given on subjects relating to the geography (illustrated by physical and political maps) and *Kulturgeschichte* of Germany. *Tu., at 2.* 6 S. C. PROFESSOR FAUST.

Course III. is elective for those who have taken Courses I. and II., or their equivalent. It may be elected, with the permission of the instructor, together with Course II.

[IV. PROSE COMPOSITION AND ADVANCED GRAMMAR. Von Jagemann's Prose Composition; Bauer-Duden,—Neuhochdeutsche Grammatik; theme-writing; discussion of methods of teaching German, *Once a week.* PROFESSOR FAUST.]

Course IV. is elective, with the permission of the instructor, for those who have taken Courses I.—III. It is omitted the present year.

V. GOETHE AND SCHILLER. Goethe,—Faust, (edited by Thomas), Part I., and selected portions of Part II. A critical study of the text, and discussion of the questions concerning the beginnings and the composition of the drama. Schiller,—Wallenstein (three parts). Study of the lives and works of the two authors. *Tu., Th., at 9.* 6 S. C. PROFESSOR FAUST. (VIII.)

Course V. is elective for those who have taken Courses I.—III., or their equivalent.

VI.¹ MIDDLE HIGH GERMAN. Paul's *Mittelhochdeutsche Grammatik*. Das Nibelungenlied, (edited by Zarncke). Walther von der Vogelweide, (edited by Paul). *Th., 7-9 p. m. (first half-year).* 11 S. C. PROFESSOR FAUST.

Course VI. is elective for those who have taken Courses I.—III., or their equivalent.

[VII.¹ THE HISTORY OF GERMAN FICTION. Lectures and reports. Outline: Earliest prose fiction, Grimmelshausen's *Simplicissimus* (seventeenth century). The Robinsonaden, and English influence (eighteenth century). Goethe's *Wilhelm Meister*; the romanticists; foreign influences (Scott; the historical and exotic romances); the national, and the modern realistic novel. Readings: Scheffel,—Ekkehard; Freytag,—*Soll und Haben*; selected short stories of Auerbach, Storm, Heyse, Hillern, Ebner-Eschenbach. *Twice a week (first half-year)*. PROFESSOR FAUST.]

[VIII.² GERMAN LITERATURE. The period selected for special study is the eighteenth century. Class readings include Lessing's *Nathan der Weise*, and selections from the works of Wieland and Klopstock. *Twice a week (second half-year)*. PROFESSOR FAUST.]

Courses VII. and VIII., except in special cases where the instructor's permission is obtained, are elective for those only who have taken Courses I.—III. They are omitted the present year.

IX. RAPID READINGS IN GERMAN PROSE AND POETRY. Von Sybel,—*Die Erhebung Europas gegen Napoleon I.*; Prehn,—*Journalistic German*; Helmholtz,—*Ueber Goethe's Naturwissenschaftliche Arbeiten*; Buchheim,—*Deutsche Lyrik*. *Tu., at 3. 6 S. C.* PROFESSOR FAUST. (XII.)

Course IX. is elective for those who have taken Course I., or its equivalent.

* X.² GERMAN SEMINARY. Subject: The German Drama. *Th., 7-9 p. m. (second half-year)*. 11 S. C. PROFESSOR FAUST.

Course X. is elective, with the permission of the instructor, for those who have taken Courses I.—IV.

Graduate Instruction.

Courses V.—VIII. and Course X. are designed also for graduate students. Those desiring advanced work in German literature, or an introduction to the study of German philology, are assigned courses of private reading.

ROMANCE LANGUAGES.

† PROFESSOR KUHN; MR. OSTRANDER.

I. ELEMENTARY FRENCH. Whitney's *Practical French Grammar*, Part I. Super's *French Reader*. Victor Hugo,—*Quatrevingt-treize*;

Absent for the year.

Eckmann-Chatrian,—Madame Thérèse; About.—Le Roi des Montagnes. Part of these books are read at sight. Opportunity is given for personal drill in pronunciation. SECTION I, *Mon., Wed., Fri., at 8*; SECTION 2, *Mon., Wed., Fri., at 3*. 2 S. C. MR. OSTRANDER. (I.)

For rules in regard to the election of I. French, see page 44.

II. ADVANCED FRENCH. Whitney's Grammar,¹ Part II., and Grandgent's French Composition. This course has for its object the study of advanced grammar and composition, in connection with the reading of a large amount of French. During the second half-year more attention is paid to the literature. *Tu., Th., at 8*. 12 S. C. MR. OSTRANDER. (VII.)

Course II. is elective for those who have taken Course I.

[III. FRENCH CONVERSATION. Bercy,—Le Français Pratique. During the year informal lectures on travel in Europe are given in French. Some of the lectures are illustrated by lantern slides. *Once a week*. PROFESSOR KUHN.]

Course III. is elective, with the permission of the instructor, for those who have taken Course I. It is omitted the present year.

[IV. MODERN FRENCH LITERATURE. Selections from the works of the more important authors of the seventeenth, eighteenth, and nineteenth centuries. There is at each recitation translation of English into French. Frequent lectures are given on the general state of literature in France in the seventeenth, eighteenth, and nineteenth centuries. In addition, each member of the class must take a somewhat extended course of reading, must prepare for the class an abstract of what he has read, and must also write a short essay in French on the life of a selected author. *Twice a week*. PROFESSOR KUHN.]

Course IV. is elective for those who have taken Courses I.—III. It is omitted the present year.

[V. OLD FRENCH. Constans' Chrestomathie de l'Ancien Français. Lectures and exercises in Old French etymology, based on La Vie de St. Alexis. *Once a week*. PROFESSOR KUHN.]

Course V. is elective for those who have taken Courses I.—IV. It is omitted the present year.

[VI. MÆDÆVAL FRENCH LITERATURE. Lectures and collateral reading. *Once a week*. PROFESSOR KUHN.]

Course VI. is elective for those who have taken Courses I.—IV. It is omitted the present year.

[VII. SEMINARY COURSE, for those who expect to teach French. *Once a week.* PROFESSOR KUHN.]

Course VII. is elective for those who have taken Courses I.-IV. It is omitted the present year.

[VIII. ELEMENTARY ITALIAN. Italian Principia, I. De Amicis, —Cuore; Manzoni, —I Promessi Sposi; Pellico, —Le Mie Prigioni. In addition to the regular work by the class in translating modern prose, the instructor will translate and interpret to the class the Inferno and the Purgatorio of Dante, the last half-hour of each recitation being devoted to this exercise. As a preparation for this part of the work, the class is required to read Rossetti's Shadow of Dante. *Twice a week.* PROFESSOR KUHN.]

Course VIII. is elective for Sophomores who have taken I. French. It is omitted the present year.

[IX. ADVANCED ITALIAN. Dante, Petrarch, Tasso, Ariosto. Lectures on the history of Italian literature. *Twice a week.* PROFESSOR KUHN.]

Course IX. is elective for those who have taken Course VIII. It is omitted the present year.

Owing to Professor Kuhns's absence, Courses III.-IX. are omitted the present year; they will probably all be given in 1901-1902.

Graduate Instruction.

Courses V.-VII. are designed for graduate students, but are elective for undergraduates.

Of the courses in French and German, Classical Freshmen are required to pursue either I. French or I. German, but are allowed their option between the two. Students in the Latin-Scientific Course are examined at entrance in the equivalent of either I. French or I. German, as they may elect, and in the Freshman year are required to pursue one course in French or German. They may either continue the study of the language in which their entrance examination was taken, or begin the study of the other language, as they may elect. Students in the Scientific Course are required to complete the equivalent of Courses I. and II. in French and I. and II. in German. Such of these courses as they have not pursued and passed in before entering college, they must take as soon as possible after entering.

ENGLISH LITERATURE.

PROFESSOR WINCHESTER.

I. GENERAL INTRODUCTION TO ENGLISH LITERATURE. 1. An outline of the history of the literature. Stopford Brooke's English Literature, with lectures. *First half-year.* 2. Class-room reading and discussion of literary masterpieces, illustrative of different varieties and periods of English literature. The works selected are:—Chaucer's Prologue to the Canterbury Tales, and the Nonne Preestes Tale; Shakspeare's Hamlet; selections from Pope's Satires. *Second half-year.* 3. A brief course of collateral reading, with written recitations and essays upon subjects drawn from the reading. Members of the class may choose any one of the courses in Winchester's Five Short Courses of Reading in English Literature. These courses consist of selections from the following authors:—

(1.) 1559-1674. Marlowe, Green, Shakspeare, Bacon, Milton.

(2.) 1660-1745. Dryden, Addison, Steele, Swift; with Johnson's Lives of Dryden, Swift, and Pope, and Thackeray's Lectures on the English Humourists.

(3.) 1745-1789. Gray, Goldsmith, Johnson, Burke, Cowper, Burns; with Leslie Stephen's Life of Johnson, Dobson's Life of Goldsmith, Morley's Life of Burke.

(4.) 1789-1832. Wordsworth, Coleridge, De Quincey, Lamb, Byron, Shelley, Keats.

(5.) 1832-1880. Carlyle, Ruskin, Matthew Arnold, Browning, Tennyson.

This work will be tested by a series of written recitations and theses during the year. *Mon., Wed., at 12.* II S. C. (V.)

Course I. is elective for Sophomores.

II. ENGLISH LITERATURE OF THE VICTORIAN PERIOD. Carlyle, Ruskin, Arnold, Tennyson, Browning. *Mon., Wed., at 9.* II S. C.

Course II. is elective for those who have taken Course I. (II.)

[III. ENGLISH POETRY, 1789-1832. Burns, Wordsworth, Coleridge, Scott, Byron, Shelley, Keats. *Twice a week.*]

Course III. is elective for those who have taken Course I. Courses II. and III. are given in alternate years, Course III. being omitted the present year.

IV. LITERATURE OF THE PERIOD OF QUEEN ANNE. Defoe, Steele, Addison, Swift, Bolingbroke, Pope. *Mon., Wed., Fri., at 8.* 56 N. C. (I.)

Course IV. is elective, with some restrictions, for those who have taken Course I. and are taking either Course II. or Course VI.

[V. ENGLISH LITERATURE, 1745-1789, with special attention to the work of Goldsmith, Johnson, and Burke. *Three times a week.*]

Course V. is elective, with some restrictions, for those who have taken Course I., either Course II. or Course III., and Course VI. Courses IV. and V. are given in alternate years, Course V. being omitted the present year.

NOTE.—The subjects of Courses III. and V. are announced provisionally, and may be changed before the opening of the next college year.

VI. ELEMENTS OF LITERARY CRITICISM. Discussion of the essential elements and the various forms of literature, with practical exercises in the application of critical principles. Winchester's *Principles of Literary Criticism* is used as a text-book. *Fri., at 9.* L. CH. 2. (II.)

Course VI. is elective for those who have taken Course I.

VII. DEBATE. Weekly practical exercises. Two members of the class are appointed to conduct the debate at each exercise. They must prepare written briefs of their argument, which are revised and corrected by the instructor, and are then publicly posted four days before the debate. *Mon., at 10.* L. CH. 2.

Course VII. is elective for Seniors, and those who elect it are excused from half the rhetorical work required in Course VIII.

VIII. ENGLISH COMPOSITION. The rhetorical exercises of the Senior class are assigned to this department. Every Senior (unless excused from half this requirement by the provisions of Course VII.), must write either four essays or two orations. All written work receives the personal criticism of the instructor, and the orations are also rehearsed before the instructor in elocution.

Graduate Instruction.

Special provision for graduate instruction is made to meet the wants of individual students.

ENGLISH LANGUAGE

PROFESSOR MEAD.

I. RHETORIC. Scott and Denney's Paragraph Writing, Mead's Composition and Rhetoric. As a study in modern prose style, the class read and discuss in the class-room Macaulay's Essay on Croker's edition of Boswell's Life of Johnson, and Brewster's Studies in Structure and Style. For supplementary reading, Wendell's English Composition is recommended. The members of the class are required to write numerous exercises illustrating and applying the principles laid down in the text-books. These exercises are discussed and criticized in the class-room, and also privately at regular times appointed by the instructor. SECTION 1, *Mon. at 8*; SECTION 2, *Mon. at 9*; SECTION 3, *Tu. at 8 (counting as two exercises a week)*. 6 S. C. (VII.)

Course I. is required of Freshmen.

II. ENGLISH COMPOSITION. A. Sophomores are required to write six essays during the year on subjects approved by the instructor.

B. Juniors write on subjects of their own selection, and choose one of the two following courses: Course I., consisting of five general and two departmental essays; Course II., consisting of two general and four departmental essays. The departmental essays must be written on subjects related to some department of college work and approved by the instructor in English.

Appointments for personal criticism are made for Sophomores and Juniors.

III.¹ OLD ENGLISH. An introductory course, based upon Smith's Old English Reader, with exercises and easy readings. Translation at sight is a frequent class exercise from the beginning. Elementary studies of the history of the English language are based upon Skeat's Primer of English Etymology. *Wed., Fri., at 8 (first half-year)*. 6 S. C. (I.)

Course III. is elective for Sophomores.

IV.² OLD ENGLISH. Bright's Anglo-Saxon Reader, with additional readings in prose or poetry, as the class may elect. In Course IV. reading at sight is especially encouraged. *Wed., Fri., at 8 (second half-year)*. 6 S. C. (I.)

Course IV. is elective for those who have taken Course III.

V. OLD ENGLISH LITERATURE. Brooke's History of English Literature from the Beginning to the Norman Conquest, with lectures on the history of Old English literature before 1100 A. D., and some account of contemporary Germanic literature. One aim of this course is to give to students whose work lies mainly in modern literature a survey of Old English prose and poetry before the Norman Conquest, and to describe the life of which the literature is a reflection. Typical selections from Old English poems are read in translation. *Th., at 11.* 6 S. C. (X.)

Course V. is elective for Sophomores.

*VI. MIDDLE ENGLISH. A course in Chaucer and typical early English romances, with an introductory course in Morris and Skeat's Specimens of Early English. Supplementary reading is arranged for each member of the class. *Tu., Th., at 3.* 26 N. C. (XII.)

Course VI. is elective for Juniors, with the permission of the instructor.

VII. MIDDLE ENGLISH LITERATURE. A course of lectures on English literature from the Norman Conquest to the Revival of Learning. The aim of this course is to point out the chief literary types in the early literature of England, and to indicate the materials that have been used again in modern English literature. Especial attention is given to the Arthurian Romances and to Chaucer. *Fri., at 3.* 6 S. C. (VI.)

Course VII. is elective for Juniors.

VIII. BEOWULF. An advanced course in Old English poetry, with supplementary linguistic investigations. *Fri., at 11 (counting as twice a week).* 26 N. C.

Course VIII. is elective for those who have taken Course IV.

[IX. ENGLISH ETYMOLOGY. An advanced course, involving previous acquaintance with English historical grammar and the elements of Gothic. *Once (counting as twice) a week.*]

Course IX. is elective for those who have taken Course VIII. Courses VIII. and IX. are given in alternate years, Course IX. being omitted the present year.

Graduate Instruction.

X. ICELANDIC. A graduate course in Icelandic, with especial reference to the Old English language and literature, is given this year. The text-books are Kahle's *Altisländisches Elementarbuch* and Vigfusson and Powell's *Icelandic Reader*. *Wed., at 3.* 26 N. C.

ELOCUTION.

PROFESSOR HIBBARD.

I. DECLAMATION. Freshmen are required to deliver declamations, mostly of their own selection, fortnightly.

Sophomores are required to deliver nine declamations during the year.

II. THEORY OF ELOCUTION. I. Mechanics of speech. Theories of vocal expression. Text-book, Russell's *Vocal Culture: First term.*

2. Gesture. Theories of Austin and Delsarte. Text-book, Bacon's *Manual of Gesture. Second term.*

3. Study of Style. Lectures on expression, extempore speech and sources of power. *Third term. Tu., Th., at 3. L. CH.*

Course II. is elective for Juniors. (XII.)

HISTORY.

PROFESSOR FARRAND; ASSOCIATE PROFESSOR PATON.

I. OUTLINES OF GENERAL HISTORY. European history, from the time of the German migrations to the outbreak of the French Revolution, with an introductory survey of ancient oriental and classical history. Ploetz's *Epitome of Universal History* and Adams's *European History*; collateral reading, lectures, and recitations. *Mon., Wed., at 9. L. CH. PROFESSOR FARRAND.* (II.)

Course I. is elective for Sophomores.

[II. GREEK HISTORY. Especial attention is given to the course of Greek civilization, and to the more important forms of government in the Greek states. *Twice a week. PROFESSOR PATON.*]

Course II. is elective for Juniors. It is omitted the present year.

III. MODERN EUROPEAN HISTORY. The French Revolution will be the central subject of the first part of this course, followed by a sketch of the history of modern Europe to the close of the Franco-Prussian war. Text-book, collateral reading, lectures, and recitations. *Tu., Th., at 12 (first half-year). L. CH. 2. PROFESSOR FARRAND.* (XI.)

Course III. is elective for Juniors who have taken Course I.

[IV. HISTORY OF ENGLAND. English history, from the time of the Anglo-Saxon invasions to the middle of the present century. Text-book, collateral reading, lectures, and recitations. *Twice a week.* PROFESSOR FARRAND.]

Course IV. is elective for Juniors who take, or have taken, Course I. Courses III. and IV. are given in alternate years, Course IV. being omitted the present year.

[V. AMERICAN COLONIAL HISTORY. A brief sketch of the discovery and exploration of America, followed by the history of the colonies until the establishment of their independence. Thwaites's *The Colonies*, Hart's *Formation of the Union*, MacDonald's *Select Charters*; collateral reading, investigation of assigned topics, lectures, recitations, and discussion of documents. *Twice a week.* PROFESSOR FARRAND.]

Course V. is elective for those who have taken Course I. It is omitted the present year.

VI. UNITED STATES HISTORY. The history of the United States from the Revolution to the Civil War. Hart's *Formation of the Union*, Wilson's *Division and Reunion*, MacDonald's *Select Documents of United States History*; collateral reading, investigation of assigned topics, lectures, recitations, and discussion of documents. *Tu., Th., at 8.* L. CH. 2. PROFESSOR FARRAND. (VII.)

Course VI. is elective for Juniors who take, or have taken, Course I. Courses V. and VI. are given in alternate years, Course V. being omitted the present year.

VII. EUROPEAN GOVERNMENTS. The governments of the more important state systems of Europe, especially England, France, Germany, and Switzerland, in their origin and present working, are treated in this course. Wilson's *State* is used as a text-book, supplemented by lectures and collateral readings, with some discussion of the present political situation in the states under consideration. *Mon., Wed., at 3.* L. CH. 2. PROFESSOR FARRAND. (VI.)

Course VII. is elective for Juniors who have taken Course I.

[VIII.¹ UNITED STATES GOVERNMENT. The United States Government, state as well as federal, is studied, and the course includes a discussion of the procedure of Congress and a consideration of some of the practical political questions of the day, as presented in the daily *Congressional Record* of the Congress then in session. Bryce's

American Commonwealth (abridged edition); collateral reading, lectures, and recitations. *Twice a week (first half-year)*. PROFESSOR FARRAND.]

Course VIII. is elective for Juniors. Courses VII. and VIII. are given in alternate years, Course VIII. being omitted the present year.

IX.² HISTORICAL SEMINARY. The subject for 1900-1901 is: The Origin of the Constitution of the United States. *Mon., 7-9 p. m. (second half-year)*. 10 O. H. PROFESSOR FARRAND.

Course IX. is elective for Seniors who take, or have taken, Course VI., and who have received honor grades in the courses they have taken in history. Others will be admitted only by special permission of the instructor.

ECONOMICS AND SOCIAL SCIENCE.

PROFESSOR FISHER.

I. PRINCIPLES OF ECONOMIC SCIENCE. General introductory course. Recitations and discussions. *Mon., Wed., at 11. 12 S. C.* (IV.)

Course I. is required in the Junior or Senior year; with the permission of the instructor, it may be taken by Sophomores.

II. ADVANCED ECONOMICS. This course includes a brief historical view, on the basis of Ingram's History of Political Economy, and critical studies of the theories of value and distribution. *Mon., Wed., at 12. L. CH. 2.* (V.)

Course II. is elective for those who have taken Course I.

[III. PUBLIC FINANCE. The economy of the state:—revenues from taxation, from government industries, and from other sources; the contraction, administration, conversion, and liquidation of public debts; government expenditures, their social and industrial effects. The work of this course is based on Bastable's Public Finance; a number of lectures are also given, and references are made to standard authorities. *Twice a week.*]

Course III. is elective for those who have taken Course I. Courses II. and III. are given in alternate years, Course III. being omitted the present year.

[IV. MONEY AND BANKING. A course of lectures on the general principles and history of monetary and banking institutions, on the social and industrial aspects of the present monetary situation, and on the various schemes for reform. *Twice a week.*]

Course IV. is elective for those who have taken Course I. It is omitted the present year.

V. THE GENERAL LABOR PROBLEM. A course of lectures on the nature, causes, and justification of the present social discontent, and on such suggested remedies as moral elevation, charity, education, provident institutions, labor organizations, strikes, conciliation and arbitration, labor legislation, improved wage systems, profit-sharing, coöperation, nationalization of the land, socialism, communism, anarchism. *Tu., Th., at 11.* L. CH. 2. (X.)

Course V. is elective for those who have taken Course I. Courses IV. and V. are given in alternate years, Course IV. being omitted the present year.

VI. SOCIOLOGY. A discussion of the fundamental principles of social organization, and the conditions and forms of social progress. *Tu., Th., at 9.* L. CH. 2. (VIII.)

Course VI. is elective for those who take, or have taken, Course I.

[VII. SOCIAL SCIENCE. An examination of certain concrete social problems of the present:—pauperism and charity; the defective and criminal classes. The class-room work is supplemented by visits to several of the charitable, penal, and reformatory institutions in and about Middletown. *Twice a week.*]

Course VII. is elective for those who take, or have taken, Course I. Courses VI. and VII. are given in alternate years, Course VII. being omitted the present year.

* VIII. ECONOMIC SEMINARY. Each member of the seminary takes for private individual investigation, under the direction of the instructor, some problem in economics, finance, statistics, or social science, and week by week reports in class on progress made and obstacles met. At the close of the year the work is brought together in a final report or thesis. *Th., 7-9 p. m. 10 O. H.*

Course VIII. is elective, with the permission of the instructor, for those who, having received first or second grade in Course I., take any three of the Courses III.-VII.

It will be noted that in each of the college classes certain courses cannot be taken at all except by such students as take Course I. in the Sophomore year. Hence a student who is to graduate in the odd-numbered years, and who wishes to take Courses III. and IV., must qualify himself to take them in his Junior year by taking Course I. in his Sophomore year; and similarly a student in an even-numbered class can take Courses II. and V. only by taking Course I. in his Sophomore year. It should be noted, however, that Course I. may be taken in the Sophomore year only with the permission of the instructor.

Graduate Instruction.

Course VIII. is intended primarily for graduate students, but is open also to such undergraduates of the Senior year as are making special studies in the department. Courses II.-VII., while intended primarily for undergraduates, may also be taken with advantage by graduates who have studied only the principles of economic science.

PHILOSOPHY.

PROFESSOR ARMSTRONG; ASSOCIATE PROFESSOR DODGE.

I.² LOGIC. Jevons-Hill's Elements of Logic. An elementary course in the fundamental forms of reasoned thinking, deductive and inductive alike. The study of the text-book is illustrated by numerous examples in logical praxis. SECTION 1, *Wed., Fri., at 9*; SECTION 2, *Wed., Fri., at 3 (second half-year)*. 11 S. C. PROFESSOR DODGE. (II.)

Course I. is required of Sophomores.

II.¹ PSYCHOLOGY. Sully's Outlines of Psychology, with references to other authorities. Lectures and discussions are used to supplement the text-book. These are introduced especially in explanation of the more recent psychological investigations, and of positions still under debate. SECTION 1, *Mon., Wed., Fri., at 10*; SECTION 2, *Mon., Wed., at 10, Th., at 11 (first half-year)*. 11 S. C. PROFESSOR ARMSTRONG. (III.)

Course II. is required of Juniors.

III. PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY. Ladd's Outlines of Physiological Psychology. The course begins with a discussion of the physical basis of mind, but more than half of the time is devoted to the study of the chief experimental methods and results. Lectures and experimental demonstrations supplement the study of the text-book. *Tu., Th., at 3.* 7 S. C. PROFESSOR DODGE. (XII.)

Course III. is elective for Juniors.

IV.¹ ADVANCED LOGIC. Hibben's Inductive Logic. The course opens with several lectures on the history of logic. Special attention is given to the discussion of the principles of induction and scientific method and to the criticism of concrete cases of scientific inference. *Tu., Th., at 10 (first half-year).* 7 S. C. PROFESSOR DODGE. (IX.)

Course IV. is elective for Juniors.

V.¹ INTRODUCTION TO PHILOSOPHY. Lectures and recitations, with references to the Introductions of Stuckenbergh, Ladd, and Külpe. *Fri., at 11 (first half-year).* 3 S. C. PROFESSOR ARMSTRONG.

Course V. may not be elected by itself. It must be combined either with Course IV. or with Course VI.

VI.² ANCIENT AND MEDIAEVAL PHILOSOPHY. Zeller's Outlines of Greek Philosophy, with references to Schwegler, Zeller's larger work, and other authorities; lectures and discussions. *Tu., Th., at 10 (second half-year).* 11 S. C. PROFESSOR ARMSTRONG. (IX.)

Course VI. is elective, under ordinary circumstances, for those who have taken Course IV. or Course V.

VII.¹ MODERN PHILOSOPHY FROM THE RENAISSANCE TO KANT. Falckenberg's History of Modern Philosophy; lectures, recitations, discussions, and references to other standard histories of philosophy. *Mon., Wed., at 11 (first half-year).* 3 S. C. PROFESSOR ARMSTRONG. (IV.)

Course VII. is elective, under ordinary circumstances, for those who have taken Course VI.

VIII.² MODERN PHILOSOPHY FROM KANT TO THE PRESENT TIME. Falckenberg's History of Modern Philosophy; lectures, recitations, discussions, and references to other authorities. *Mon., Wed., at 11 (second half-year).* 3 S. C. PROFESSOR ARMSTRONG. (IV.)

Course VIII. is elective for those who have taken Course VII.

* IX. ADVANCED PSYCHOLOGY. The object of this course is the discussion of important selected topics. The views of leading thinkers are presented in lectures and in formal reports by members of the class. The topics for the current year are taken from abnormal and from social psychology. *Wed., at 2. 7 S. C.* PROFESSOR DODGE.

Course IX. is elective, with the permission of the instructor, for those who have taken Course II.

* X. LABORATORY COURSE IN PSYCHOLOGY. Experimental study of special problems. The principal subject of investigation for the present year is a quantitative determination of the eye movements. *Mon., at 2. 78 Lawn Ave.* PROFESSOR DODGE.

Course X. is elective, with the permission of the instructor, for those who have taken Courses II. and III.

XI.¹ READINGS IN MODERN PHILOSOPHY. In this course, representative works of leading thinkers of the first half of the modern period are read and discussed. Special attention is given to selections from Descartes, Locke, Berkeley, and Hume. *Tu., Th., at 12 (first half-year).* 7 S. C. PROFESSOR DODGE. (XI.)

Course XI. is elective for those who are taking Course VII.

XII.² METAPHYSICS. Selections from Kant's works and Lotze's Metaphysics. Class readings and discussions. Topical reports and theses may also be required. *Mon., Wed., Fri., at 3 (second half-year).* 7 S. C. PROFESSOR ARMSTRONG. (VI.)

Course XII. is elective for those who are taking Course VIII.

Graduate Instruction.

[XIII. GRADUATE SEMINARY. The philosophy of Kant, as given in the Critiques of Pure Reason, Judgment, and Practical Reason. *Once a week.* PROFESSOR ARMSTRONG.]

Course XIII. is intended for graduate students, Courses IX.-XII. for advanced undergraduates and graduates. Special courses under the direction of the instructors of the department may be arranged in advanced experimental and theoretical psychology, historical philosophy, and metaphysics.

ETHICS AND RELIGION.

PRESIDENT RAYMOND; PROFESSOR RICE.

I.¹ **ETHICS.** A course of lectures on theoretical and practical ethics. The course is introduced with a brief historical survey of modern ethical theories, and the lectures are supplemented by theses and collateral reading. *Tu., Wed., Th., Fri., at 10, every other week (first half-year).* L. CH. PRESIDENT RAYMOND. (III.)

Course I. is required of Seniors.

II.² **EVIDENCES OF CHRISTIANITY.** Lectures, with collateral readings on all the important topics. *Wed., Fri., at 10 (second half-year).* L. CH. PRESIDENT RAYMOND. (III.)

Course II. is required of Seniors.

III.³ **THEISM.** Instruction is given by lectures, supplemented by collateral readings and class discussions. The purpose of the course is to discover essential religious phenomena, to test the various historic theories offered in explanation of these phenomena, and to find a philosophic basis for faith. *Tu., Th., at 12 (second half-year).* 6 S. C. PRESIDENT RAYMOND. (XI.)

Course III. is elective for those who have taken Courses I., II., V.-VII. in philosophy.

[IV.³ **RELATIONS OF SCIENCE AND RELIGION.** A course of lectures on the history of important advances in scientific thought and their bearing upon theistic and Christian belief. The heliocentric astronomy, the antiquity of the earth and of man, the theory of evolution, and the correlation of physical and vital forces, are among the topics discussed. *Twice a week (second half-year).* PROFESSOR RICE.]

Course IV. is elective for Juniors. It is omitted the present year.

MATHEMATICS AND ASTRONOMY.

PROFESSOR J. M. VAN VLECK; PROFESSOR E. B. VAN VLECK; DR. LING.

I. **SOLID GEOMETRY.** Phillips and Fisher's Elements of Geometry. *First third of the year.*

PLANE TRIGONOMETRY. Locke's Trigonometry, edited by J. A. Miller. *Second third of the year.*

ANALYTICAL GEOMETRY. *Last third of the year.* SECTION 1, *Mon., Tu., Th., Fri., at 9.* SECTION 3, *Mon., Tu., Th., Fri., at 12.* DR. LING. SECTION 2, *Mon., Tu., Th., Fri., at 10.* PROFESSOR E. B. VAN VLECK. 12 S. C. (V.)

Course I. is required of Classical and Latin-Scientific Freshmen, and of Scientific Freshmen who did not pass in the advanced requirements in mathematics on admission to college.

II. ALGEBRA. Advanced course, principally in the theory of equations. *Tu., Th., at 11.* 26 O. H. DR. LING. (X.)

Course II. is elective for those who have taken Course I.

III. TRIGONOMETRY. Advanced course, with applications to problems in surveying and astronomy. *Tu., Th., at 2.* 26 O. H. DR. LING.

Course III. is elective for those who have taken Course I.

IV. ANALYTICAL GEOMETRY. Advanced course, based upon C. Smith's Conic Sections, with an elementary introduction to solid geometry. *Wed., Fri., at 2.* 26 O. H. DR. LING. (VI.)

Course IV. is elective for those who have taken Course I.

V. DIFFERENTIAL AND INTEGRAL CALCULUS. Elementary course. *Tu., Th., Fri., at 12.* 26 O. H. PROFESSOR E. B. VAN VLECK.

Course V. is elective for those who have taken Course I. (XI.)

Courses II., IV., and V. are necessary for those who purpose to pursue advanced courses in pure mathematics; Course V. is necessary for those intending to pursue advanced courses in physics and other branches of applied mathematics.

[VI. DIFFERENTIAL EQUATIONS, based on Murray's Treatise on Differential Equations. *Twice a week.* PROFESSOR E. B. VAN VLECK.]

Course VI. is elective for those who have taken Course V. It is omitted the present year.

[VII. ANALYTICAL GEOMETRY OF THREE DIMENSIONS, including especially a study of mathematical models. *Twice a week.* PROFESSOR J. M. VAN VLECK.]

Course VII. is elective for those who have taken Course IV., and who take, or have taken, Course V. It is omitted the present year.

[VIII. PROJECTIVE GEOMETRY. *Twice a week.* PROFESSOR E. B. VAN VLECK.]

Course VIII. is elective for those who have taken Course IV. or Course V. It is omitted the present year.

IX. CHAPTERS IN THE HISTORY OF MATHEMATICS, with collateral reading. *Mon., Wed., at 8.* 26 O. H. PROFESSOR E. B. VAN VLECK. (I.)

Course IX. is elective, with the approval of the instructor, for those who have taken Course V., and who take, or have taken, one other course in elective mathematics.

X. THEORY OF FUNCTIONS. Elementary course. *Wed., Fri., at 9.* 26 O. H. PROFESSOR E. B. VAN VLECK. (II.)

Course X. is elective for those who have taken Course V.

[X. (a.) ELLIPTIC FUNCTIONS. *Twice a week.* PROFESSOR J. M. VAN VLECK.]

Course X. (a.) is elective for those who have taken Course X. It is omitted the present year.

XI. PARTIAL DIFFERENTIAL EQUATIONS. *Mon., Wed., at 12.* 26 O. H. PROFESSOR E. B. VAN VLECK. (V.)

Course XI. is elective for those who have taken Course VI.

XII. THEORETICAL MECHANICS. *Tu., Th., at 12.* 25 O. H. PROFESSOR J. M. VAN VLECK. (XI.)

Course XII. is elective for those who have taken Course V.

XIII. DESCRIPTIVE ASTRONOMY. This course is designed to give a general knowledge of the fundamental facts and principles of astronomy, such a knowledge as may properly constitute a part of a general liberal education. *Tu., Th., at 9.* 26 O. H. PROFESSOR J. M. VAN VLECK. (VIII.)

Course XIII. is elective for those who have taken Course I., and is required of Scientific Sophomores.

XIV. SPHERICAL AND PRACTICAL ASTRONOMY. Campbell's Practical Astronomy, with practical exercises in the observatory. *Wed., at 12.* 26 O. H. *Fri., at 12.* 25 O. H. PROFESSOR J. M. VAN VLECK. (V.)

Course XIV. is elective for those who have taken Courses V. and XIII.

Graduate Instruction.

Courses VIII., X., X. (a.), XI., XII. and XIV. are intended for graduate students as well as for advanced undergraduates.

PHYSICS.

PROFESSOR CRAWFORD; PROFESSOR ROSA.

I. ELEMENTARY PHYSICS. A general course, involving only elementary mathematics. Mechanics, Hydrostatics, Pneumatics. *Mon., Fri., at 10 (first half-year).* PROFESSOR ROSA. Heat, Sound, Light. *Mon., Wed., Fri., at 10 (second half-year).* PROFESSOR CRAWFORD. 25 O. H. (III.)

Course I. is required of Classical Sophomores, and of Latin-Scientific Sophomores and Scientific Freshmen who did not pass in physics on admission to college.

II. ELEMENTARY ELECTRICITY. This course is parallel to Course I., and supplementary to it. It includes also some experimental work in the laboratory. *Tu., Th., at 11.* 25 O. H. PROFESSOR ROSA. (X.)

Course II. is elective for those who take, or have taken, Course I.

III. ELEMENTARY PRACTICAL PHYSICS. This course is intended for those who purpose to teach physics, and also as an introductory course for those who expect to take further laboratory work. Those who elect Course II. will have opportunity for work in the electrical laboratory. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (any two of these hours at the discretion of the student).* PROFESSORS CRAWFORD AND ROSA.

Course III. is elective for those who take, or have taken, Course I.

[IV.¹ SOUND. A course based on Everett's Vibratory Motion and Sound, with extensive supplementary readings. *Twice a week (first half-year).* PROFESSOR CRAWFORD.]

Course IV. is elective for those who have taken Course I. It is omitted the present year.

V.¹ HEAT. A general elementary treatment of the subject, with Stewart's Elementary Treatise on Heat as a text-book. *Mon., Wed., at 8 (first half-year).* 25 O. H. PROFESSOR CRAWFORD. (I.)

Course V. is elective for those who have taken Course I.

VI.² THERMO-DYNAMICS. A continuation of Course V., mainly conducted by lectures, of which an abstract is furnished. *Mon., Wed., at 8 (second half-year).* 25 O. H. PROFESSOR CRAWFORD. (I.)

Course VI. is elective for those who have taken Course V. in physics, and have taken, or are taking, Course V. in mathematics.

VII. LIGHT. The first half-year is given mainly to geometrical optics, the second to the wave theory of light. Text-book, Emtage's Light. *Mon., Wed., at 12.* 25 O. H. PROFESSOR CRAWFORD. (V.)

Course VII. is elective for those who have taken Course I., and who take, or have taken, Course V. in mathematics.

N. B. Students admitted to college by certificate, with credit in physics, will not be admitted to Courses IV.-VII., without satisfying the instructor of their ability to pursue these courses.

VIII. APPLIED ELECTRICITY. The course consists of lectures and of lessons from a text-book giving the modern theory of the electro-magnet, and applying it to dynamos, motors, and other electrical apparatus. *Mon., Wed., at 11.* 25 O. H. PROFESSOR ROSA.

Course VIII. is elective for those who have taken Course II. (IV.)

IX. PRACTICAL PHYSICS. The experiments in this course involve careful measurements of the nature indicated in such manuals as those of Kohlrausch, Glazebrook and Shaw, Carhart and Patterson, and Stewart and Gee. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* PROFESSORS CRAWFORD AND ROSA.

Course IX. is elective for those who have taken Course II. or Course III.

X. PRACTICAL PHYSICS. A continuation of Course IX. In the department of electricity opportunity is afforded for some shop-work, and for extended investigation of the problems connected with transformers and with alternating currents in general. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* PROFESSORS CRAWFORD AND ROSA.

Course X. is elective for those who have taken Course IX.

XI. MATHEMATICAL THEORY OF ELECTRICITY. This course is based upon J. J. Thomson's Mathematical Theory of Electricity and Magnetism, including a more extended discussion of alternating currents than is given by Thomson. *Tu., Th., at 9.* 25 O. H. PROFESSOR ROSA. (VIII.)

Course XI. is elective for those who have taken Course II. in physics and Course V. in mathematics.

XII. MATHEMATICAL THEORY OF ELECTRICITY. An advanced course, in continuation of Course XI., with special discussion of electro-magnetic waves. 1. Experimental work in the laboratory.

Twice a week (first half-year). 2. A course of lectures. Twice a week (second half-year), the hours to be determined hereafter. 25 O. H. PROFESSOR ROSA.

Course XII. is elective for those who have taken Course XI. in physics and Course V. in mathematics.

XIII. JOURNAL MEETING. The instructors of the department meet the graduate students and advanced undergraduates for the purpose of reporting and discussing articles from the current journals of general physics and electricity. *Wed., at 9. 25 O. H.*

XIV. PHYSICAL SEMINARY. In this course special topics are chosen for more thorough and extended study than is possible in any of the other courses. For the current year the topics selected are from the field of applied physics, with special application to important industrial enterprises in mechanical, mining, and electrical engineering. *Mon., 2-4. 25 O. H. PROFESSORS CRAWFORD AND ROSA.*

Course XIV. is intended for graduates and for those undergraduates who have taken sufficient work in physics to qualify them to pursue the course with advantage.

CHEMISTRY.

PROFESSOR ATWATER; PROFESSOR BRADLEY; DR. BENEDICT.

I.¹ ELEMENTARY CHEMISTRY. This course is devoted to the elementary principles of the science. Each student performs a considerable number of experiments in the laboratory. *Tu., Wed., Th., at 10 (first half-year). 3 J. H. PROFESSORS ATWATER AND BRADLEY. (IX.)*

Course I. is required of Classical Sophomores, and of Latin-Scientific Sophomores and Scientific Freshmen who did not pass in chemistry on admission to college.

II.² ELEMENTARY CHEMISTRY; a continuation of Course I. A course of lectures on the general principles and some of the applications of chemistry. *Tu., Th., at 11 (second half-year). 3 J. H. PROFESSOR ATWATER. (X.)*

Course II. is elective for those who have taken Course I.

III. QUALITATIVE ANALYSIS. A practical course in basic, acid, and blow-pipe analysis. Lectures are given on the chemical problems involved in the detection of the more common metals. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week)*. CHEM. LAB. PROFESSOR BRADLEY.

Course III. is elective for those who have taken Course I.

IV. QUANTITATIVE ANALYSIS. A practical course in quantitative analysis and special laboratory exercises adapted to the wants of individual students. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week)*. CHEM. LAB. PROFESSOR ATWATER AND DR. BENEDICT.

Course IV. is elective for those who have taken Courses II. and III.

V. ORGANIC CHEMISTRY. Lectures and recitations. The principles of organic chemistry as illustrated by the derivatives of methane and benzene. *Mon., Wed., Fri., at 8*. 3 J. H. PROFESSOR BRADLEY. (I.)

Course V. is elective for those who have taken Course III.

VI.¹ PHYSIOLOGICAL CHEMISTRY. Lectures on selected chapters of physiological chemistry. Especial attention is given to the chemistry of the animal body. *Tu., Th., at 11 (first half-year)*. 3 J. H. PROFESSOR ATWATER. (X.)

Course VI. is elective for those who have taken Course II. It is desirable that those who elect it should also elect Course V.

*VII. ORGANIC CHEMISTRY. A laboratory course devoted to practice in the preparation of compounds of carbon. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week)*. CHEM. LAB. PROFESSOR BRADLEY.

Course VII. is elective, with the permission of the instructor, for those who take, or have taken, Course V.

VIII. PHYSIOLOGICAL CHEMISTRY. A laboratory course in the preparation of compounds of interest in physiological chemistry. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week)*. CHEM. LAB. PROFESSOR ATWATER AND DR. BENEDICT.

Course VIII. is elective for those who have taken, or are taking, Courses V. and VI.

Courses VI. and VIII. are recommended to those who purpose to study medicine.

IX. THEORETICAL CHEMISTRY. Lectures upon the origin, development, and present status of the theory of the atom and molecule. *Tu., Th., at 12.* 3 J. H. PROFESSOR BRADLEY. (XI.)

Course IX. is elective for those who have taken Course III.

X.² CHEMISTRY OF THE SYNTHETIC DYES. A course of lectures on the synthesis and constitution of organic compounds as illustrated by the so-called anilin colors. *Twice a week (second half-year), the hours to be determined hereafter.* 3 J. H. DR. BENEDICT.

Course X. is elective for those who have taken Course V. during the first half-year.

*XI. CHEMICAL SEMINARY. A course of instruction and reading in biological chemistry. *Tu., Th., at 8.* 3 J. H. PROFESSOR ATWATER.

Course XI. is elective, with the permission of the instructor, for those who take, or have taken, Courses V. and VI.

Graduate Instruction.

Course XI., although elective for undergraduates, is designed chiefly for graduates. Laboratory courses of research in physical, physiological, and organic chemistry may be arranged.

GEOLOGY.

PROFESSOR RICE.

I. ELEMENTARY GEOLOGY. A course of lectures, chiefly on dynamical and structural geology. Dana's Revised Text-book of Geology is recommended for reference. *Tu., Th., at 12.* 8 J. H. (XI.)

Course I. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores.

II.¹ DYNAMICAL AND STRUCTURAL GEOLOGY. Advanced course. Recitations and lectures, with Le Conte's Elements of Geology, and Dana's Revised Text-book of Geology, as text-books. Special topics for study, with bibliographical references, are assigned to each member of the class. Lectures on these topics by the members of the class are discussed and criticized. Excursions are taken on Saturdays during the fall. The phenomena observed in an excursion are discussed at the next meeting of the class, one of the members of the class generally giving a report or lecture. *Mon., Wed., Fri., at 12 (first half-year), counting as four exercises a week.* 8 J. H. (V.)

Course II. is elective for those who have taken Course I. It is very desirable, however, that those who take this course should also have taken the course in physical geography.

III.² HISTORICAL GEOLOGY AND PALEONTOLOGY. Recitations and lectures, with same text-books as in Course II. Excursions are taken on Saturdays during the spring (required only of those who take also Course II.). *Mon., Wed., Fri., at 12 (second half-year), counting as four exercises a week for those who take also Course II.* 8 J. H. (V.)

Course III. is elective for those who have taken Course I. It is very desirable, however, that those who take this course should also have taken the courses in zoölogy and botany.

IV.¹ PHYSICAL GEOGRAPHY. Recitations and lectures, with Tarr's Elementary Physical Geography as a text-book. *Mon., Fri., at 3 (first half-year).* 8 J. H. (VI.)

Course IV. (in connection with II. and III. Biology) is elective for Classical Sophomores, and is required of Latin-Scientific and Scientific Freshmen who did not pass in physical geography on admission to college.

V.¹ MINERALOGY. Crystallography and optical mineralogy. Lectures and practical exercises. Dana's Text-book of Mineralogy is used for reference. *Tu., Th., at 9, Fri., at 11 (first half-year).* (VIII.)

Course V. is elective for Classical and Latin-Scientific Juniors and Scientific Sophomores.

VI.² MINERALOGY. Determinative and descriptive mineralogy. Laboratory work in determinative mineralogy, lectures on descriptive mineralogy. Brush's Manual of Determinative Mineralogy, and Dana's Text-book of Mineralogy, are used for reference. *Tu., Th., at 9, Fri., at 11 (second half-year).* (VIII.)

Course VI. is elective for those who have taken Course V.

Graduate Instruction.

Courses II., III., V., and VI., although intended primarily for undergraduates, have often been taken by graduate students.

Additional work is provided for graduate students. This may include courses of reading in various branches of geological science, field-work, or laboratory work in mineralogy and lithology.

BIOLOGY.

PROFESSOR CONN.

I. **PHYSIOLOGY.** The instruction is given chiefly by lectures, Martin's Human Body being used as a text-book. Enough anatomy is given to render the physiological discussions intelligible, and enough hygiene to guide to an intelligent care of the body. *Mon., Wed., at 8.* 8 J. H. (I.)

Course I. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores.

II.¹ **GENERAL BIOLOGY.** This course is devoted to the study of the simpler laws of life, and the relations of animals and plants. Practical study is made of the earthworm, the frog, and some common plants, which are used as illustrating the general structure and physiology of animals and plants. This course is designed as an introduction to the study of botany, zoölogy, and physiology. *Wed., 2-4 (first half-year), Mon., Wed., Fri., 2-4 (Feb. 18-March 15), two hours counting as one.* 8 J. H. (VI.)

Course II. (in connection with IV. Geology and III. Biology) is elective for Classical Sophomores, and is required of Latin-Scientific and Scientific Freshmen.

III.² **BOTANY.** This course is a continuation of Course II., and consists of lectures and recitations, and of a large amount of practical work. It includes the study of physiological, morphological, structural, and microscopic botany. The course begins with the study of cryptogams, followed by a study of phenogams. The last four weeks are devoted to the analysis and description of flowers. Coulter's Plant Structures is used as a text-book. *Mon., Wed., Fri., 2-4 (after March 15), two hours counting as one.* 8 J. H. (VI.)

Course III. (in connection with IV. Geology and II. Biology) is elective for Classical Sophomores, and is required of Latin-Scientific and Scientific Freshmen who did not pass in botany on admission to college.

IV. **ZOÖLOGY.** Lectures and recitations. Typical examples, illustrating the various groups of the animal kingdom, are studied, attention being given rather to the general laws governing living beings than to the systematic classification of species. The course includes the embryology of the various forms studied, as well as their adult anatomy. The last term is devoted to the study of comparative anatomy and general zoölogical problems. *Mon., Wed., at 9.* 8 J. H. (II.)

Course IV. is elective for Classical Juniors and for Latin-Scientific and Scientific Sophomores.

V. PRACTICAL BIOLOGY. The design of the course in practical biology is to furnish opportunity for special biological work along such lines as may be best adapted to the future plans of the student. Seniors intending to study medicine devote their attention largely to physiology, histology, and the dissection of some mammal. Those desiring a more general course make a brief examination of various groups of the animal and vegetable kingdoms.

Those electing the study for two years spend the first year in the study of biology in general, making a careful study of illustrative types of the different groups of the animal and vegetable kingdoms, such as amœba, infusoria, hydra, earthworm, bacteria, yeast, mould, lichens, mosses, flowering plant, etc. The laboratory work is planned to illustrate as far as possible, the principles of biology, comparative anatomy, and embryology. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week)*. BIOL. LAB.

Course V. is elective for Juniors.

VI. PRACTICAL BIOLOGY. Advanced course. The second year is devoted to the study of histology, bacteriology, embryology, and mammalian anatomy. During the second half-year each student pursues some special work assigned by the instructor. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week)*. BIOL. LAB.

Course VI. is elective for those who have taken Course V.

The laboratory work of Courses V. and VI. is accompanied by frequent lectures.

VII.¹ EVOLUTION. A course of lectures and recitations, giving an outline of the general theory of evolution. *Tu., Th., at 8 (first half-year)*. (VII.)

Course VII. is elective for Juniors.

[VIII.¹ BACTERIOLOGY. A course of lectures giving the history of bacteriology and the present state of our knowledge of the subject. *Twice a week (first half-year)*.]

Course VIII. is elective for Juniors. Courses VII. and VIII. are given in alternate years, Course VIII. being omitted the present year.

EXAMINATION GROUPS.

No student is allowed to take more than one course in any of these groups, with the exception of those (bracketed together) which are not given in the same half-year. The following courses are not assigned to any group, and they may be elected without limitation: VI., VII. Latin; VII., X. Greek; III., VI., X. German; VIII., X. English Language; IX. History; VIII. Economics; V., IX., X. Philosophy; III. Mathematics; III., IX., X., XII., XIII., XIV. Physics; III., IV., VII., VIII., X., XI. Chemistry; V., VI. Biology.

I.—*M., W., F., at 8.*

- IV. Greek.
- I. German.
- I. French.
- IV. English Literature.
- { III. English Language, *W., F.*
- { IV. English Language, *W., F.*
- IX. Mathematics, *M., W.*
- { V. Physics, *M., W.*
- { VI. Physics, *M., W.*
- V. Chemistry.
- Physiology, *M., W.*

II.—*M., W., F., at 9.*

- I. Latin, *also Th.*
- { XVI. Latin, *W., F.*
- { XVII. Latin, *W., F.*
- * II. English Literature, *M., W.*
- VI. English Literature, *F.*
- † I. History, *M., W.*
- Logic, *W., F.*
- X. Mathematics, *W., F.*
- Zoölogy, *M., W.*

III.—*M., W., F., at 10.*

- I. Greek, *T., W., Th., F.*
- Psychology.
- { Ethics, *Tu., W., Th., F.*
- { Evidences, *W., F.*
- I. Physics.

IV.—*M., W., F., at 11.*

- II. German.
- I. Economics, *M., W.*
- { VII. Philosophy, *M., W.*
- { VIII. Philosophy, *M., W.*
- VIII. Physics, *M., W.*

V.—*M., W., F., at 12.*

- XIX. Latin, *M., W.*
- IX. Greek, *F.*
- I. English Literature, *M., W.*
- II. Economics, *M., W.*
- I. Mathematics, *M., T., Th., F.*
- XI. Mathematics, *M., W.*
- XIV. Mathematics, *W., F.*
- VII. Physics, *M., W.*
- { II. Geology.
- { III. Geology.

* May be elected with VI. English Literature.

† May be elected with Logic.

- VI.**—*M., W., F., at 3.*
VII. English Language, *F.*
VII. History, *M., W.*
XII. Philosophy.
IV. Mathematics, *W., F. (at 2).*
 { Physical Geography, *M., F.*
 { Botany, *M., W., F.*
 † General Biology, *W.*
- VII.**—*T., Th., at 8.*
II. French.
I. English Language, *M., T.,*
 also M., at 9.
VI. History.
 Evolution.
- VIII.**—*T., Th., at 9.*
 { **II.** Latin.
 { **III.** Latin.
V. German.
VI. Economics.
 Astronomy.
XI. Physics.
 Mineralogy, *also F., at 11.*
- IX.**—*T., Th., at 10.*
 { **IV.** Philosophy.
 { **VI.** Philosophy.
I. Chemistry, *also W.*
- X.**—*T., Th., at 11.*
IX. Latin.
III. Greek, *T.*
V. English Language, *Th.*
V. Economics.
II. Mathematics.
II. Physics.
 { **II.** Chemistry.
 { **VI.** Chemistry.
- XI.**—*T., Th., at 12.*
 { **XIV.** Latin.
 { **XV.** Latin.
II. Greek.
III. History.
XI. Philosophy.
 Theism.
V. Mathematics, *also F.*
XII. Mathematics.
IX. Chemistry.
I. Geology.
- XII.**—*T., Th., at 13.*
 { **IV.** Latin.
 { **V.** Latin.
IX. German, *T.*
VI. English Language.
 Elocution.
III. Philosophy.

† May be elected with Physical Geography and Botany.

SELECTION OF STUDIES.

The studies which are required of students in the respective classes and courses are indicated below. In addition to these, each student of the three upper classes is required to elect such a number of studies that his *average* number of recitations and lectures a week for the year, exclusive of rhetorical exercises, shall be not less than 14 nor more than 17. The minimum requirement for Freshmen is 15 recitations and lectures a week for the year, exclusive of declamations; the maximum is 17. Elections must be made in accordance with the restrictions specified in the description of the respective courses in the foregoing statement of the courses of instruction. *No student is allowed to take more than one course in any examination group (see pages 67, 68), with the exception of those which are not given in the same half-year.*

SCHEDULE OF REQUIRED STUDIES.

N. B.—The numbers in *italics* indicate the average number of hours a week for the year.

CLASSICAL COURSE.

FRESHMEN:—I. Latin, 4; I. Greek, 4; I. Mathematics, 4; I. English Language, 2; I. German, or I. French, 3.

SOPHOMORES:—Logic, 1; I. Physics, 2½; I. Chemistry, 1½.

JUNIORS:—Psychology, 1½; I. Economics, 2. (Economics may be postponed to the Senior year, or may be taken, with the permission of the instructor, in the Sophomore year.)

SENIORS:—Ethics, 1; Evidences of Christianity, 1.

LATIN-SCIENTIFIC COURSE.

FRESHMEN:—I. Latin, 4; I. Mathematics, 4; I. English Language, 2; Physical Geography, General Biology, and Botany, 3; I. or II. French, or I. or II. German, 2 or 3. (See page 44.)

SOPHOMORES:—Logic, 1; I. Physics, 2½; I. Chemistry, 1½.

For such part of the courses in science or modern languages above named as students may have passed in at entrance, they will be allowed to substitute enough elective work to fill out the required quota of exercises a week.

JUNIORS:—Psychology, 1½; Economics, 2. (See requirements for classical course.)

SENIORS:—Ethics, 1; Evidences of Christianity, 1.

SCIENTIFIC COURSE.

FRESHMEN:—Not less than fifteen hours a week of the following courses: I. Mathematics, 4; I. English Language, 2; I. German, 3, and II. French, 2, or II. German, 3, and I. French, 3 (see page 44); I. Physics, 2½; I. Chemistry, 1½; Physical Geography, General Biology, and Botany, 3.

For such of these studies as students may have passed in at entrance, they are allowed to substitute elective work.

SOPHOMORES:—II. German, 3, or II. French, 2 (see page 44); Logic, 1; Astronomy, 2; Geology, 2; Physiology, 2.

JUNIORS:—Psychology, 1½; I. Economics, 2. (See requirements for classical course.)

SENIORS:—Ethics, 1; Evidences of Christianity, 1.

In addition to the courses indicated in the foregoing statement, exercises in English composition and in public speaking are required of Freshmen and Sophomores, exercises in English composition of Juniors, and exercises either in English composition or in public speaking of Seniors. (See pages 46, 47, 49.)

DAILY PROGRAM.

The order of lectures and recitations is set forth in the table given on pages 72 and 73. In that table the sign (*) indicates that an exercise occurs only occasionally, the particular days to be announced by the instructor. Roman numerals preceding the names of certain studies refer to the numbers of the courses as enumerated in the foregoing statement of courses of instruction. Arabic numerals, following the names of certain studies, indicate the sections into which the classes are divided.



3.	VI. Latin. I. French, 2. VII. History. XII. Philosophy (2d half). XIV. Physics. III., IV., VII., VIII. Chem- istry. Physical Geography (1st half). Botany (2d half).	IV. Latin (1st half). V. Latin (2d half). IX. German. VI. English Language. Eloquence. III. Philosophy. III., IX., X. Physics. V., VI. Biology.	VII. Latin. I. French, 2. IX. History. XII. Philosophy (2d half). XIV. Physics. III., IX., X. Physics. III., IV., VII., VIII. Chem- istry. General Biology (1st half). Botany (2d half). V., VI. Biology.	IV. Latin (1st half). V. Latin (2d half). VI. English Language. Eloquence. III. Philosophy. III., IX., X. Physics. V., VI. Biology.	I. French, 2. VII. English Language. XIV. Physics (2d half). XII. Philosophy (2d half). III., IV., VII., VIII. Chem- istry. Physical Geography (1st half). Botany (2d half).
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GENERAL REGULATIONS.*

QUOTA OF STUDIES.

For students of the three upper classes, the quota of regular studies is, for a minimum, fourteen hours, and for a maximum, seventeen hours of class-room work a week, exclusive of rhetorical exercises. The quota for Freshmen (see pages 69 and 70) varies from fifteen to seventeen hours of class-room work a week, exclusive of declamations. No student is allowed to take less than fourteen, nor more than seventeen, hours of work a week without special permission from the Faculty.

GRADES.

The general character of the work of each student in each study is indicated by his assignment to one of five grades, grade 1 denoting the highest excellence, and grade 5, failure to pass. The Secretary of the Faculty sends to each student, within three weeks after Commencement, a report of his grades in all the studies which he has taken during the year.

EXAMINATIONS.

Regular examinations are held at the end of the college year, and during a specified period in February, according to the times at which the respective studies are completed. No student who has been absent from fifteen per cent. or more of the required exercises in any study can be admitted to examination in that study, except by special permission from the Faculty. Such permission may be accorded when the Faculty are convinced that the absences have not been due to culpable negligence. In the application of this rule, absences from the first or the last exercise of a term in any study, or consecutive absences including the first or the last exercise, are each reckoned as two absences.

* Copies of the detailed Regulations may be obtained from the Secretary.

To students who, for any reason, have not passed at a regular examination, opportunities for special examinations are given at specified times. If a student fails to pass a final examination in any study before that study is taken up by the next succeeding class, he is required, unless specially excused therefrom, to recite with that class. A student who, at the close of the special examinations held at the beginning of the year, is deficient by an amount equivalent to six or more hours of work a week for a year, is ranked with the next lower class, unless specially excused therefrom by the Faculty.

ENTRANCE CONDITIONS.

A student who fails to make up entrance conditions before the first day of November of the next college year, is excluded from all recitations until the conditions are made up.

PUBLIC WORSHIP.

Devotional services, at which the attendance of students is required, are held in the College Chapel every morning.

Every student is required to attend the Sunday morning service in some one of the churches in the city.

A limited number of absences from chapel and church are allowed, without the presentation of any excuse.

Voluntary religious services under the direction of the several college classes and of the Young Men's Christian Association are held weekly.

ATHLETIC AND MUSICAL ORGANIZATIONS.

No member of the Senior or Junior class who is deficient in his college work more than two hours a week for a year, and no member of the Sophomore class who is deficient more than three hours a week for a year, is allowed to take part in any athletic contest with another team, except by special permission; and any student who becomes notably deficient in his work during the year may be debarred from taking part in such a contest.

Members of the college musical organizations, who are deficient as specified in the preceding paragraph, are not allowed to appear in public concerts given by those organizations.

No student under censure is allowed to serve, without permission of the Faculty, in any capacity on an athletic organization or on a musical association giving public concerts.

LEAVE OF ABSENCE.

A student who desires excuse from college exercises on account of absence from town must apply to the President for permission to be absent, and, unless the circumstances of the case render it impracticable, such permission must be obtained before the student's departure.

EXPENSES.

The annual charges in the Treasurer's bill are as follows:—

Tuition,	-	-	-	-	-	-	-	-	\$75 00
Rent and care of half-room, unfurnished, from \$18									
to \$40; average,	-	-	-	-	-	-	-	-	29 00
Steam heat; average for half-room,	-	-	-	-	-	-	-	-	8 00
Incidentals (lighting, heating, and care of public									
rooms, gymnasium fee, etc.),	-	-	-	-	-	-	-	-	27 00
Use of library and reading-rooms,	-	-	-	-	-	-	-	-	6 00
Total,	-	-	-	-	-	-	-	-	\$145 00

A fee of five dollars a term is charged to each student in practical physics, and also to each student in practical biology.

Students in practical chemistry are charged the following fees, per term: for organic chemistry, ten; for quantitative analysis, eight and one-third; and for qualitative analysis, five dollars. A moderate additional charge is made for breakage.

Women residing in the Women's Hall are charged at the rate of five dollars and a half a week for board and room-rent. Those residing elsewhere in the city are charged two dollars a term for the use of the study-room in the Women's Hall.

A diploma fee of five dollars is charged to each student at graduation.

A diploma fee of ten dollars is charged to each graduate student upon promotion to the Master's degree.

The college bills are payable at the commencement of each term; a rebate of one dollar is made on all college bills that are paid on or before the day appointed. Unless the bill for any term is paid, or payment thereof guaranteed, before the commencement of the following term, the student is liable to exclusion from recitations.

No student can have an honorable dismissal, or certificate of progress in his studies, until his bills are paid or payment thereof guaranteed.

A student who is absent from college on account of sickness, or for other cause, and who retains his place in his class, must pay the full college bills during his absence.

The rooms in the college buildings are rented to students during term time only, and must be vacated at the close of the third term. Students are held accountable for any damage done to their rooms. During the summer vacation the rooms are put in order, and the expense charged to the occupants.

Students are permitted to take lodgings in town, but the places in which they room or board are in all cases subject to the approval of the Faculty. If, however, any of the rooms in the college are thus left vacant, the rent of such rooms may be charged to holders of free scholarships who room in town.

Board may be obtained in private families at prices varying from \$3.75 to \$5.00 a week. A majority of the students board in clubs, at prices ranging from \$3.00 to \$4.00 a week. The price of board at the College Commons is \$2.35 a week.

Other expenses incident to college life vary with the habits and circumstances of the student. They are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and health have been compelled to leave the college for want of money.

THE COMMONS.

In order to reduce the expense of a college course, the college has established a commons, where board may be obtained at a low rate. The building known as the Foss House has been fitted up for the use of the commons, and a new dining-hall has been built in the rear affording accommodation for about one hundred boarders. There

is also a sitting-room which serves as a library and reading-room. The upper rooms of the house are rented unfurnished for dormitory purposes, at lower rates than the rooms in North College.

An organization has been effected by the members of the commons, and it is intended to make the club as attractive as possible in a social way. Some attention will also be given to debate and to various literary exercises.

The college is responsible for the general management of the commons, the details being in charge of a matron who is responsible to a college officer. Bills are paid into the college treasury, and the college assumes all financial responsibility. The rate of board has been fixed at two dollars and thirty-five cents a week, with a guarantee that it shall not exceed two dollars and a half.



MATERIAL EQUIPMENT.

LIBRARY AND READING-ROOMS.

THE LIBRARY in Rich Hall contains about fifty-nine thousand volumes. The library is open every week-day of the college year from 8:15 A. M. to 10 P. M. Students are allowed direct access to the shelves. Copies of the library rules may be obtained from the Librarian.

On the first floor of North College is a reading-room, provided with the principal newspapers, daily and weekly. Another reading-room, on the second floor of Rich Hall, contains the current issues of the most important magazines, journals, and reviews, literary and scientific, American and foreign.

ASTRONOMICAL OBSERVATORY.

THE OBSERVATORY is used for purposes of instruction, and is well equipped therefor. Students in astronomy have frequent opportunities to examine the most interesting celestial objects through the telescope; and members of the class in practical astronomy are instructed in the theory and use of all the instruments in the observatory.

The principal instruments are an equatorial of twelve inches aperture, by Alvan Clark & Sons, provided with a filar micrometer and spectroscopes, solar and stellar, two of which have very high dispersive power; a transit instrument of three inches aperture, with collimators of the same aperture, and adapted to use as a zenith telescope; a prime vertical instrument of the same size; sextants; two astronomical clocks; a chronometer; and a chronograph.

LABORATORIES AND APPARATUS.

THE LABORATORY OF EXPERIMENTAL PSYCHOLOGY contains a collection of apparatus for illustration and experiment in the field of physiological and experimental psychology. The equipment is now

sufficient for a thorough course with demonstration and for some advanced research. Among the principal pieces of apparatus are models of the nervous system, a Hipp chronoscope, Helmholtz's rotation apparatus, Schumann's "Zeitsinn" apparatus, a chronograph, a pendulum-tachistoscope, a sphygmograph, a plethysmograph, stereoscopes, tuning forks, electrical supplies, etc. The laboratory occupies at present the same room as the philosophical seminary, No. 7 South College.

THE PHYSICAL LABORATORY is equipped with apparatus for the performance of the experiments usually undertaken in undergraduate courses. In the department of electricity, facilities are afforded for instruction in the use of all important electrical instruments and machines. The laboratory work in all departments except electricity is carried on in Observatory Hall. The electrical work is carried on partly in the dynamo-room and partly in a separate laboratory closely adjacent. The dynamo-room contains a 25 horse-power engine, several dynamos and motors, transformers, and a variety of testing instruments.

THE CHEMICAL LABORATORY occupies seven rooms in Judd Hall. A large working-room on the first floor, with a balance room adjoining, furnishes accommodations for about fifty students, and smaller rooms afford conveniences for the work of instructors, assistants, and graduate students. Two other rooms on the first floor are used for library, seminary, and office purposes. A large room in the basement serves for the laboratory work of the required course in elementary chemistry.

THE CRYOGENIC LABORATORY, soon to be installed, will furnish ample facilities for research at low temperatures. Through the generosity of several alumni it has been made possible to provide the necessary machinery for a complete liquid air plant, consisting essentially of a 6 horse-power oil motor, an air compressor capable of delivering air at pressures of 3,000 pounds, and a liquefier. Subsidiary apparatus will be provided as may be necessary.

THE BIOLOGICAL LABORATORY occupies six rooms in Judd Hall, and is capable of accommodating about thirty students. Four rooms are used for general laboratory purposes, of which one is used for miscellaneous laboratory work, one for physiological work, one for coarse dissection, and one for bacteriological work. The laboratory is equipped with all the apparatus necessary for elementary biological

work, and is provided with an abundance of material for anatomical and histological study. The general laboratory room contains a type collection illustrating all orders of animals, and students are allowed to use the large museum collection for comparison and direct study.

THE MECHANICAL LABORATORY occupies the west room in the boiler house, and is in charge of a skilled mechanician. This laboratory affords facilities not only for the repair of apparatus belonging to the college and for the construction of new apparatus which may be designed by the professors or by the mechanician, but also for the instruction of students who find a certain degree of mechanical skill necessary to complete their training in the scientific departments.

MATHEMATICAL MODELS. This collection, the gift of Ebenezer Hill, Esq., of the class of 1870, comprises a complete set of the models made by Brill of Darmstadt, for illustration in the higher branches of mathematics, as well as in mathematical physics and crystallography. The models are arranged in a series of cases in the mathematical reading-room in Observatory Hall.

GYMNASIUM AND ATHLETIC FIELD.

THE FAVERWEATHER GYMNASIUM is located on the north side of the rear campus, parallel with Wyllys Avenue. Its dimensions are 55 by 120 feet.

The basement contains two bowling alleys, a base-ball cage, baths, lockers, and toilet rooms.

On the first floor is the main hall of the gymnasium, which is well equipped and affords ample room for every variety of gymnastic exercise. The director's office and rooms for baths and lockers are also on the first floor. The running track is suspended from the roof, above the main floor. On the second floor is a trophy room, used also as a committee room by the various athletic organizations, as well as additional baths and lockers. Special attention has been paid to ventilation, drainage, and lighting, and the present structure is believed to contain the best features of a modern gymnasium.

The gymnasium is in charge of a competent director. Exercise in the gymnasium is required of the men of the Freshman and Sophomore classes, three hours a week, from Thanksgiving to the end of the winter term. Elective work in the gymnasium is offered to the men of the Junior and Senior classes.

Through the generosity of Mr. J. E. Andrus, of the class of 1862, a trustee of the University, a well equipped athletic field has recently been laid out, and a grand stand is soon to be erected. The field is in the rear of the main line of college buildings, just south of the gymnasium. A quarter-mile cinder track, with a "straight-away" of 200 yards, encircles one portion of the field, within which ample room is afforded for base-ball, foot-ball, and field and track athletics. The entire field, covering seven acres, provides sufficient space for class and 'varsity teams to practice at the same time. Its proximity to the college enables the whole student body to keep in touch with the training in all branches of athletics, and affords the teams an opportunity to use the dressing rooms and baths, reserved for them in the gymnasium.

MUSEUM.

THE MUSEUM OF NATURAL HISTORY AND ETHNOGRAPHY occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with special reference to their educational use, and are freely accessible to students.

The nucleus of the departments of zoölogy and botany was formed by the Shurtleff collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The Zoölogical Department received in the years between 1872 and 1881 most important accessions in liberal donations and exchanges from the Smithsonian Institution, and in collections made by the curators on the coast of New England, through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland also added large and valuable collections. Valuable collections of insects were presented by Richard L. de Zeng in 1896, and by Mrs. E. K. Hubbard in 1898. This department includes about thirteen thousand species. The vertebrata of North America, the marine invertebrata of New England, and the mollusca in general, are especially well represented.

The Herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many specimens from foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the University in 1879.

The Mineralogical Department includes about three hundred and fifty species, and a much larger number of varieties. The Franckfort collection, purchased in 1858, contains many choice specimens, mostly from European localities. The minerals of the interesting region in which Middletown is situated, are well represented by collections commenced by the labors of Professor Johnston, and largely increased by accessions within the last few years. Important accessions were obtained in 1899 by collecting trips to Nova Scotia and to Herkimer County, N. Y.

The Geological Department includes collections in lithology, physical geology, and paleontology. The lithological collection received in 1897 a most valuable accession in the gift of a set of the educational series of rock specimens described in Bulletin No. 150 of the U. S. Geological Survey, presented by the Survey. A suite of Ward's casts of fossils, presented by Orange Judd, M. A., in 1871, serves an excellent purpose in the work of instruction, affording the student a representation of many remarkable forms of ancient life, actual specimens of which are rare or unique. A valuable collection of Tertiary fossils was received in 1887 from the Smithsonian Institution, in exchange for duplicate shells from the Shurtleff collection. The collections in paleontology have been very largely increased since 1893 by the work of the present curator in the vicinity of Middletown, at Valcour Island, Lake Champlain, in western Maryland, in the vicinity of Chattanooga, Tenn., Canon City and Florissant, Col., and Fossil, Wyo., and in Nova Scotia. A choice collection of European fossils, including a number of beautiful specimens from the lithographic limestone of Solenhofen, was received in 1895 from the Museum of Munich, in exchange for American fossils. The private collection of Mr. Loper, purchased for the museum in 1900, is very rich in fossil fishes and plants from the fossiliferous shales of the vicinity of Middletown.

The Ethnographical Department is especially rich in specimens illustrating the life of the Aborigines of North America. Important contributions of pottery, casts of implements, models of dwellings, and other objects have been received from the Smithsonian Institution.

A very valuable collection of objects from burial mounds near Chattanooga, Tenn., was deposited in the museum in 1896 by A. R. Crittenden, and has since then been purchased. The department also possesses a valuable collection of pottery from the guano beds of Peru, presented by the late Joseph S. Spinney; an interesting collection of weapons and other objects from the South Sea Islands; and valuable collections of objects illustrative of Chinese life and customs, presented by Rev. Marcus L. Taft, D. D., and by Mrs. W. W. Wilcox. In connection with the ethnographical department of the museum should be mentioned a collection of coins, numbering over 3,000, exclusive of duplicates. Included in this number is a collection of 1,750 Chinese coins, some of which are ancient and very rare, presented by Rev. Marcus L. Taft, D. D. The greater part of the ethnographical collection is at present arranged in the lower hall of the museum, with the collections in mineralogy and geology. The coins (with the exception of a small selection placed on exhibition in the museum) are kept in a case in the library, where they can be seen by students and others on special application. Small collections illustrative of classical archæology are kept in the seminary rooms.

The following is an approximate statement of the number of specimens in the various departments of the museum:—

DEPARTMENT OF ZOOLOGY.

Mammals—skins mounted and unmounted,	-	-	-	-	-	-	-	200
alcoholic,	-	-	-	-	-	-	-	50
skulls and skeletons,	-	-	-	-	-	-	-	110
Birds—skins mounted and unmounted,	-	-	-	-	-	-	-	1,500
nests and eggs,	-	-	-	-	-	-	-	600
Reptiles,	-	-	-	-	-	-	-	350
Amphibians,	-	-	-	-	-	-	-	150
Fishes,	-	-	-	-	-	-	-	2,100
Insects—pinned and alcoholic,	-	-	-	-	-	-	-	6,500
nests, borings, etc.,	-	-	-	-	-	-	-	50
Crustacea,	-	-	-	-	-	-	-	1,500
Worms,	-	-	-	-	-	-	-	1,800
Mollusks—shells,	-	-	-	-	-	-	-	90,000
alcoholic,	-	-	-	-	-	-	-	4,000
Echinoderms,	-	-	-	-	-	-	-	1,000
Cœlentera,	-	-	-	-	-	-	-	1,700
Sponges and protozoa,	-	-	-	-	-	-	-	150

DEPARTMENT OF BOTANY.

Plants in herbarium, - - - - -	10,700
Specimens of wood, - - - - -	300
Miscellaneous botanical specimens, - - - - -	600

DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks, - - - - -	14,500
Fossils—Paleozoic, - - - - -	9,500
Mesozoic, - - - - -	2,500
Cenozoic, - - - - -	3,000

DEPARTMENT OF ETHNOGRAPHY.

Miscellaneous ethnographic specimens, - - - - -	2,800
Coins, - - - - -	5,000

The museum is open to the public on Wednesday and Saturday afternoons.



SCHOLARSHIPS.

TUITION SCHOLARSHIPS.

The Trustees each year place at the disposal of the President, for the benefit of needy and worthy students, a sum of money which is used to pay, in whole or in part, the charge for tuition. The sum appropriated for the current year is \$14,000.

In addition to these are the following:—

THE JOHN EVANS SCHOLARSHIP.

This scholarship was founded by Mrs. Ann Evans in memory of her husband. The income is about one hundred dollars, and is given annually to that member of the Senior or Junior class who is named by the Board of Trustees, or by some authority to whom they may delegate the nomination. For this scholarship, only such students as are preparing themselves for the ministry, and are already licentiates in the Methodist Episcopal Church, can be candidates.

THE SQUIRE SCHOLARSHIP.

This scholarship was founded by Hon. Watson C. Squire, B. A. In accordance with its provisions, the income of \$5,000 is awarded to that member of the Senior class who passes the best examination in Greek, provided that the successful candidate devote the ensuing year to classical study, in residence in the University, or in connection with travel or residence abroad, at his option, subject to the approval of the Committee on Graduate Instruction.

THE JONES SCHOLARSHIP.

This scholarship was founded by Frank S. Jones, Esq. The income, amounting to fifty dollars, is available, at the discretion of the President, for the use of a deserving student who needs pecuniary assistance.

COLLEGE HONORS.

PRIZES.

The Harrington Prize, the gift of Rev. Edmund Mead Mills, D. D., in memory of Professor C. S. Harrington, is awarded for the best essay on some specified subject in the department of history. The subject for the essay of 1901 is: The Acquisition of Louisiana in 1803.

The Joseph D. Weeks Prize, the gift of Joseph Dame Weeks, M. A., is awarded for the best essay on some specified subject in the department of economics. The subject for the essay of 1901 is: The Methods of the American Industrial Monopoly, with especial reference to their Moral Qualities. The essays must be left with the head of the department on or before the third Monday in May (May 20, 1901).

The Peirce Prize, the gift of Rev. Bradford K. Peirce, D. D., is awarded for excellence in natural science. It will be given in 1901 upon a special examination based on Course I. in biology. The subject of the examination in 1902 will be chemistry; in 1903, geology.

The Phi Beta Kappa Prize is awarded for excellence in Latin. It will be given in 1901 upon a special examination on the history of the reign of Tiberius.

The G. Brown Goode Prize, the gift of Mrs. G. Brown Goode, is awarded for the best original investigation in the department of natural history.

No person who has once taken either the Harrington, the Joseph D. Weeks, the Phi Beta Kappa, or the G. Brown Goode Prize, may compete for it again.

The Weeks Prize, the gift of Joseph Dame Weeks, M. A., is awarded for excellence in modern philosophy. It will be awarded in 1901 for the best examination in Courses VII. and VIII. in philosophy, and for additional work to be assigned by the instructor.

A prize is awarded for excellence in Greek literature. It will be given in 1901 upon a special examination in Course IX. in Greek.

The Camp Prize, the gift of Samuel T. Camp, Esq., is awarded for excellence in English literature. It will be given in 1901 upon a special examination in Course I. in English literature.

The Johnston Prize, the gift of Rev. David G. Downey, D. D., in memory of Professor John Johnston, is awarded for excellence in electricity. It will be given in 1901 upon a special examination based on Course II. in physics.

The Spinney Prize, the gift of Mrs. Joseph Spinney, is awarded for excellence in Greek. It will be given in 1901 upon a special examination based in part on the first half of Course II. in Greek.

The Rice Prize, the gift of Rev. William Rice, D. D., is awarded for excellence in mathematics. It will be given in 1901 upon a special examination based on Course V. in mathematics.

Students who compete for either the Weeks, the Greek literature, the Camp, the Johnston, the Spinney, or the Rice Prize must do so during the year in which they regularly pursue the course or courses on which the examination for the prize is based.

The Wise Prize, the gift of Rev. Daniel Wise, D. D., is awarded to that member of the Senior class who excels in ethics.

The Walkley Prize, the gift of Webster R. Walkley, M. A.,—*in memoriam* David Hart Walkley, graduated June, 1878; died September 16, 1878,—is awarded to that member of the Junior class who excels in psychology. It will be awarded in 1901 for the best examination on the work of the required course in psychology, together with additional work to be assigned by the instructor.

The Sherman Prize, the gift of Rev. David Sherman, D. D., is awarded this year to that member of the Freshman class who excels in Latin. The examination is based on Course I. in Latin. The subject of the examination in 1902 will be Greek; in 1903, mathematics.

The Ayres Prize, the gift of Daniel Ayres, M. D., LL. D., is awarded to that member of the Freshman class who is found upon a special examination, held shortly after the beginning of the college year, to have attained the highest excellence in the studies preparatory to admission to the classical course.

The Rich Prize, the gift of Mrs. Isaac Rich, is awarded to that member of the Senior class whose oration at Commencement is deemed best in composition and delivery. Each oration must contain not more than twelve hundred words, and must be left with the Professor of English Literature on or before the second Tuesday preceding Commencement (June 18, 1901).

The Olin Prize, the gift of Mrs. Julia M. Olin, is awarded to that member of the Senior class who excels in English composition. The subject for the essay of 1901 is: The Political Consistency of Edmund Burke. The subject for the essay of 1902 is: British Rule in India as a Sample of Government by a Superior and Alien Race. Essays must be left with the Professor of English Literature on or before the first Monday of the third term (April 15, 1901).

Two prizes are awarded, as a first and second prize respectively, to the two members of the Junior class who present the best orations at the annual Junior Exhibition. In the award of these prizes, both the composition and the delivery of the orations are considered. The orations must be left with the Professor of the English Language on or before the first Saturday in the third term (April 13, 1901).

The Briggs Prize, the gift of James E. Briggs, Esq., is awarded to that member of the Junior class who excels in debate.

The Parker Prize, the gift of Rev. John Parker, for excellence in elocution, is awarded to the best speaker in the Junior and Sophomore classes.

A second prize is awarded, in the same classes, for excellence in elocution; but, in the competition for it, selections of a dramatic character, and from poetry, are excluded.

The Hibbard Prize, the gift of Professor Ralph G. Hibbard, M. A., is awarded to that member of the Freshman class who excels in declamation.

The Taylor Prize, the gift of Rev. George Lansing Taylor, D. D., is awarded to that student who presents the best English poem. The poem must be left with the Professor of English Literature before the Senior examination.

The several Committees of Award will withhold any prize, if, in their judgment, none of the exercises presented in competition for it possess the requisite merit.

AWARD OF PRIZES, 1899-1900.

The Harrington Prize, to WILLIAM CHAUNCEY RICE.

Committee of Award:—Professor Herman Vandenburg Ames, Ph. D., of the University of Pennsylvania.

The Joseph D. Weeks Prize, to WALTER FENNO DEARBORN.

The Peirce Prize, to CLARENCE HATHORNE STAPLES.

The Phi Beta Kappa Prize, to JAMES WISWELL MUDGE.

The G. Brown Goode Prize, to ROLLIN HILLIARD BURR and FRANK EVERETT WING.

The Weeks Prize, to WALTER FENNO DEARBORN.

The Greek Archaeology Prize, to ROBERT CECIL McMAHON and JAMES HERBERT TUCKLEY.

The Camp Prize, to LEE FOSTER HARTMAN.

The Johnston Prize, to FRANKLIN STILES DURSTON.

The Spinney Prize, to JAMES WISWELL MUDGE.

Committee of Award:—Professor Frank Cole Babbitt, Ph. D., of Trinity College, Hartford.

The Rice Prize, to ALICE WINIFRED ENGLISH.

Committee of Award:—Professor Frederick Shenstone Woods, Ph. D., of the Massachusetts Institute of Technology.

The Wise Prize, to HENRY ANDREWS INGRAHAM.

Committee of Award:—Professor Charles Hubbard Judd, Ph. D., of New York University.

The Walkley Prize, to LEE FOSTER HARTMAN.

The Sherman Prize, to GEORGE WILBER HARTWELL.

Committee of Award:—Same as for the Rice Prize.

The Rich Prize, to HORACE DURAR BYRNES and JOHN EDWIN WING.

Committee of Award:—Professor Ammi Bradford Hyde, D. D., of Denver, Col.; Rev. George Preston Mains, D. D., of New York City; and Rev. Frank Bourne Upham, M. A., of Mamaroneck, N. Y.

The Olin Prize, to EMIL HARRY BLICHFELDT.

Committee of Award:—Professor Lincoln Robinson Gibbs, of Mount Union College.

The First Junior Exhibition Prize, to EMMETT WELLS GOULD.

Committee of Award:—Rev. Samuel Hart, D. D., of Middletown; Hon. Francis Hubert Parker, LL. B., of Hartford, Conn.; and Martin Green Benedict, Ph. D., Principal of the High School, New Britain, Conn.

The Second Junior Exhibition Prize, to BURTON HOWARD CAMP.

Committee of Award:—Same as for the First Junior Exhibition Prize.

The Briggs Prize, to FRANKLIN HALSTED CLAPP and THOMAS SPARKS CLINE.

The Parker Prize, to WILLIAM GRAY HARRIS.

Committee of Award:—Rev. Edward Campion Acheson, M. A., of Middletown; Charles Whitney Page, M. D., of Middletown; and Rev. Frederick Watson Hannan, B. D., of Waterbury, Conn.

The Second Prize in Elocution, to ROY HUMISTON JONES. Honorable mention, EMMETT WELLS GOULD.

Committee of Award:—Same as for the Parker Prize.

The Hibbard Prize, to OLIN MASON CAWARD. Honorable mention, JOHN TANNER RUSSELL.

Committee of Award:—Same as for the Parker Prize.

The Taylor Prize, to PERCY ALLEN PARSONS.

The Ayres Prize, for the current year, to PAUL NIXON, prepared at the Thayer Academy, Braintree, Mass.

APPOINTMENTS FOR JUNIOR EXHIBITION AND COMMENCEMENT.

The speakers at the Junior Exhibition are selected from the men of the Junior class according to their grade in composition and declamation subsequent to the Freshman year. The speakers at Commencement are selected from the men of the Senior class according to their grade in the rhetorical exercises of the Junior and the Senior year, together with, in 1902 and thereafter, the declamations of the Sophomore year and the elective course in elocution. The grades of those students who do, and of those who do not elect elocution, will be reduced to the same scale for the purpose of this selection. The number of speakers at each of these public exercises is limited to eight.

The speakers last year were:—

JUNIOR EXHIBITION.

BURTON HOWARD CAMP,	THOMAS SPARKS CLINE,
FRANKLIN HALSTED CLAPP,	EMMETT WELLS GOULD,
ALFRED SAMUEL CLAYTON,	WILLIAM CHAUNCEY RICE,
FRANK BERTRAM WADE.	

COMMENCEMENT.

HARRY TORSEY BAKER,	THOMAS TRAVIS,
EMIL HARRY BLICHPELDT,	EMORY HAMMOND WESTLAKE,
HORACE DURAR BYRNES,	WALTER BROWNE WILSON,
HENRY ANDREWS INGRAHAM,	JOHN EDWIN WING.

HONORS IN SCHOLARSHIP.

I. HONORS IN GENERAL SCHOLARSHIP.—Two grades of honor, designated respectively as honors and high honors, are conferred at graduation, based upon the general scholarship of the student throughout his whole course.

An honor in general scholarship is awarded to a student who has received a grade not below third on an aggregate of not less than 62 hours' work, as reckoned in the record of standings, has received first grade on a number of hours' work not less than the part of the 62 hours' work on which he has received third grade, and has not fallen below fourth grade in any study of the course.

A high honor in general scholarship is awarded to a student who has received a grade not below second on an aggregate of not less than 62 hours' work, has received first grade on an aggregate of not less than 50 hours' work, and has not fallen below third grade in any study of the course.

II. PRELIMINARY HONORS.—Preliminary honors are awarded in the departments of classics and mathematics at the end of the Sophomore or Junior year, and no student can receive special honors at graduation in Greek, Latin, or mathematics, who has not previously received the corresponding preliminary honors. Notice of candidacy for preliminary honors must be given to the senior officer of the department, and to the Secretary of the Faculty, as early as the first Monday of the third term of the year in which the candidate proposes to present himself for the special examination (April 15,

1901). The case of each candidate is decided by the Faculty. The special regulations concerning the award of preliminary honors are as follows:—

Classics.—1. The candidate must not fall below third grade, and must maintain an average standing of second grade, in the following courses:—I., II., and III. Greek, and in Latin I., VI., and any two of the Courses II.—V.

2. He must also pass with distinction a special examination, held near the end of the academic year, and designed to test (*a*) his ability to translate Greek and Latin into English at sight, and (*b*) his knowledge of Greek and Latin grammar, and of Greek and Roman antiquities, mythology, and political and literary history.

Mathematics.—1. The candidate must not fall below third grade, and must maintain an average standing of second grade in the required course in mathematics, and in such elective courses, amounting to not less than five hours a week, as may be approved by the head of the department. Courses IV. and V. are recommended.

2. He must pass with distinction a special examination, held near the end of the academic year, which may cover the entire field of his mathematical knowledge.

III. HONORS IN SPECIAL DEPARTMENTS AT GRADUATION.—Two grades of special honor, designated respectively as honors and high honors, are awarded at graduation in each of the following departments:—

Latin; Greek; German; Romance Languages; English; History; Economics and Social Science; Philosophy; Mathematics; Physics; Chemistry; Geology; Biology.

The conditions upon which special honors in these departments are awarded are as follows:—

(1) The candidate must apply to the officer in charge of the department in which he proposes to take honors, and to the Secretary of the Faculty, not later than the first Monday of the third term in the Junior year (April 15, 1901).

(2) He must pass at the regular or special examinations in such studies of the college course as are prescribed for honors in the several departments in the schedule given below; and in such studies he

must not fall below third grade, and must maintain an average standing of second grade after the beginning of the Sophomore year, or must receive first grade in all of the prescribed studies which he takes after the beginning of his Junior year.

(3) In addition to the studies regularly prescribed in the schedule below, the candidate must pursue such a course of collateral reading or investigation as is prescribed by the officer in charge of the department, with the approval of a committee of the Faculty. The evidence of his proficiency in this collateral course is given by an examination, oral or written, by a thesis or essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as may be prescribed by the officer of the department, with the approval of a committee of the Faculty. The case of each candidate is decided by the Faculty.

(4) In addition to other requirements, every candidate for special honors is required to pass a *general examination* covering the entire field of his knowledge in the department in which the honor is given. This examination is oral, and is conducted in the presence of a committee of the Faculty.

(5) No student is awarded special honors who fails to pass in any study of the last two years of the course.

(6) No examination for special honors is given, and no thesis or other work in preparation for special honors is received, after the second Saturday preceding Commencement (June 15, 1901).

The conditions upon which high special honors are awarded are the same as for special honors, with the addition of the following requirements:—

The candidate must receive first grade in all of the prescribed studies which he takes after the beginning of his Sophomore year; and his examinations and other tests must show an exceptionally clear and comprehensive understanding of the studies of the department, and give promise of capacity for independent work.

The following schedule gives the studies required of candidates for special honors in the several departments:—

Latin.—1. So many of the courses in Latin as will amount in the aggregate to not less than twenty hours a week.

2. Courses I. and II. in Greek.

[Candidates for special honors in Latin at graduation are requested to announce their candidacy as early as the beginning of the Junior year.]

Greek.—1. Courses I.–VII., and either Course VIII. or Course IX. in Greek.

2. Course I., and any two of Courses II.–V. in Latin.

German.—1. Courses I.–VIII. in German.

2. Courses I. and II. in French.

3. Course I. in English Literature, or Courses III. and IV. in English Language.

Romance Languages.—1. Courses I.–IV. in French, and the elementary course in Italian.

2. Courses I. and II. in German.

English.—1. The required courses in English, including composition.

2. One of the following groups of elective courses:—

(a.) Courses III., IV., and VI. in English Language, and Courses I., VI., II. or III., and IV. or V. in English Literature.

(b.) Courses III., IV., and VI. in English Language, Course I. in English Literature, and Courses I. and II. in German.

(c.) Courses I., VI., II. or III., and IV. or V. in English Literature, Courses III. and IV. in English Language, and Course IV. in History.

(d.) Courses I., VI., II. or III., and IV. or V. in English Literature, Course IV. in History, and any three of the courses in German, French, or Italian.

[In 1902 and thereafter the following groups of elective courses will replace those offered under heading 2 above:—

(a.) Four courses in English Literature, and four courses in English Language.

(b.) Four courses in English Language, one course in English Literature, two courses in German.

(c.) Four courses in English Literature, one course in English Language, four courses in French or German or both.

(d.) Four courses in English Literature, four courses in French or German, one course in English history.

(e.) Five courses in English Language, five courses in French or German.]

History.—1. All the courses in History.

2. The required course, and one elective course, in Economics and Social Science.

Economics and Social Science.—1. All the courses in Economics and Social Science.

2. Courses I., IV., and VI. in History.

Philosophy.—1. All the courses in Philosophy.

2. The course in Ethics.

3. The course in Theism (for candidates in general philosophy), or Course I. in Biology (for candidates in psychology).

Mathematics.—1. The required course in Mathematics.

2. Elective courses in Mathematics and Astronomy, amounting in the aggregate to not less than fifteen hours a week.

3. Course I. in Physics.

[Prospective candidates for special honors in Mathematics at graduation are advised to take Course V. in Mathematics in the Sophomore year.]

Physics.—1. Course I. in Physics.

2. Two years of Practical Physics (in at least one of which there shall be three exercises a week).

3. Not less than three full courses chosen from the following:—IV., V., VI., VII., VIII., XI., XII. Physics, and XII. Mathematics (IV., V., and VI. Physics being reckoned as half-courses).

4. Course I. in Chemistry.

5. Either Course III. in Chemistry or Course V. in Mathematics.

Chemistry.—1. Courses I.-V. and IX. in Chemistry (three exercises a week being required in Course III.).

2. Course I. in Physics, and one year of Practical Physics; or Course VI. in Chemistry, and Courses I. and V. in Biology.

Geology.—1. Courses I.-VI. in Geology.

2. The elementary course in Astronomy.

3. Courses III. and IV. in Biology.
4. Not less than two of the following courses:—V. and VI. Biology, III. and IV. Chemistry, and VII. Physics.

Biology.—1. Courses I.–VI. in Biology.

2. Courses I. and IV. in Geology.

3. Course III. in Chemistry or Course III. in Geology.

[Candidates for special honors in Biology are recommended to take at least one summer course in a marine laboratory.]

In all cases in which the foregoing schedule allows option between two or more courses or groups of courses, the student's selection is subject to the approval of the head of the department in which he proposes to take honors.

In special cases a candidate for honors may be allowed to substitute other courses for those named in the foregoing schedule, by vote of the Faculty, on recommendation of the head of the department.

An honor of any of the kinds and grades mentioned may be conferred on a student sufficiently meritorious, by vote of the Faculty, even though his record of standing does not completely fulfill the requirements stated above.

The names of those students who take preliminary honors are announced at the public service held in the College Chapel on the Monday preceding Commencement (June 24, 1901).

The names of students who take honors at graduation, whether general or special, are printed on the Commencement program.



AWARD OF HONORS, 1899-1900.

HONORS IN GENERAL SCHOLARSHIP.

HIGH HONORS.

HARRY TORSEY BAKER,	ARTHUR WESLEY BROWNE,
HORACE DURAR BYRNES,	CLARENCE HATHORNE STAPLES.

HONORS.

HARVEY LEE BAGENSTOSE,	WALTER MACNAUGHTEN,
EMIL HARRY BLICHFELDT,	WINTHROP TIRRELL,
JOHN ROCKEFELLER BOWMAN,	THOMAS TRAVIS,
WALTER FENNO DEARBORN,	EMORY HAMMOND WESTLAKE,
LEROY ALBERT HOWLAND,	WALTER BROWNE WILSON,
HENRY ANDREWS INGRAHAM,	FRANK EVERETT WING,
ROBERT CECIL McMAHON,	JOHN EDWIN WING.
ALICE BRIGHAM,	GRACE LEONA FOOTE,
MARY AGNES SALESKI.	

HONORS IN SPECIAL DEPARTMENTS.

HIGH HONORS.

English.

HARRY TORSEY BAKER. Robert Browning. Thesis: "Browning's Dramatic Forms."

Chemistry.

ARTHUR WESLEY BROWNE. The Liquefaction of Gases. Thesis: "The Liquefaction of Hydrogen."

HONORS.

Greek.

ROBERT CECIL McMAHON. Greek Archæology.

English.

EMIL HARRY BLICHFELDT. Robert Browning. Thesis: "Ethical Ideals in Browning's Poetry."

Mathematics.

LEROY ALBERT HOWLAND. Determination of the Orbit of Asteroid
E. Y.

Biology.

FRANK EVERETT WING. Thesis: "A study of the Development
of *Crepidula fornicata*."

PRELIMINARY HONORS.

Mathematics.

Sophomores.

WEBB GARDNER COOPER, DAVID GIFFORD WILLETS,
ALICE WINIFRED ENGLISH.

Classics.

Junior.

JOHN BROCKWAY RIPPERE.

Sophomores.

JAMES WISWELL MUDGE.



DEGREES.

The following degrees are conferred by the University, in course:—

BACHELOR OF ARTS.—This degree is conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Classical Course.

BACHELOR OF PHILOSOPHY.—This degree is conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Latin - Scientific Course.

BACHELOR OF SCIENCE.—This degree is conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Scientific Course.

The baccalaureate degree is awarded *summa cum laude* to a student who takes high honors both in general scholarship and in one or more departments; *magna cum laude*, to a student who takes a high honor either in general scholarship or in one or more departments; *cum laude*, to a student who takes an honor either in general scholarship or in one or more departments.

MASTER OF ARTS AND MASTER OF SCIENCE.—The degrees of Master of Arts and Master of Science are conferred in accordance with the following regulations:—

1. The degree of Master of Arts is conferred upon Bachelors of Arts of Wesleyan University, of at least one year's standing, at the satisfactory conclusion of a course of advanced, non - professional study, pursued in residence for a period of not less than one year. This course of study is under the full direction of a Committee of the Faculty on Graduate Instruction, composed of three permanent members with the addition of the instructor in charge of each department in which the candidate pursues work. Evidence of the candidate's proficiency in the approved studies is given by an examination, oral or written, by a thesis or an essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these

methods combined, as the Committee may prescribe. All such tests of proficiency are under the direction of the Committee, and they report to the Faculty proper candidates for the degree.

2. In the case of Bachelors of Arts of other colleges whose course of study is accepted as sufficient by the Committee on Graduate Instruction, or who pass such additional examinations as the Committee prescribes, the degree of Master of Arts is conferred on the conditions prescribed in the case of Bachelors of Arts of Wesleyan University pursuing a course of study in residence.

3. The degree of Master of Arts is also conferred upon Bachelors of Arts of Wesleyan University, of at least three years' standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued *in absentia*, and equivalent in amount to that prescribed in the case of resident graduate students; and in all other particulars the same regulations hold in the case of non-residents as in the case of resident students. The degree is also conferred upon Bachelors of Arts of Wesleyan University, of two years' standing, at the satisfactory conclusion of a course of study pursued *in absentia*, on the conditions above specified, provided that the candidate has spent the two years in resident study in a non-professional department of some other university.

4. The degree of Master of Science is conferred upon Bachelors of Philosophy and Bachelors of Science, whether of this or of other colleges, under the same conditions which govern in the case of the degree of Master of Arts.

5. Bachelors of Philosophy and Bachelors of Science, whether of this or of other colleges, who shall pass such examinations in Greek and Latin, and in other literary studies, as the Committee on Graduate Instruction shall prescribe, shall be admitted to the degree of Master of Arts on the conditions prescribed in the case of Bachelors of Arts.

6. A fee of ten dollars is required from each graduate student upon promotion to the Master's degree.

Communications from prospective graduate students regarding the Master's degree should be addressed, in the first instance, to Professor E. T. Merrill, the secretary of the Committee on Graduate Instruction.

DEGREES CONFERRED, JUNE, 1900.

DEGREES IN COURSE.

The Degree of Bachelor of Arts was Conferred on

HARVEY LEE BAGENSTOSE,	JAMES MELVIN LEE,
HARRY TORSEY BAKER,	ROBERT CECIL McMAHON,
CHARLES BILLINGTON,	EDWARD McMILLEN,
EMIL HARRY BLICHFELDT,	WALTER MACNAUGHTEN,
JOHN ROCKEFELLER BOWMAN,	HOWARD VIRGIL MATTOON,
ARTHUR LEONARD BROWN,	PERCY ALLEN PARSONS,
HORACE DURAR BYRNES,	RALPH EDGAR PEARCE,
FRANCIS ROBINSON CLARK,	GEORGE DE CHAMP PETERSON,
HARRY DAVENPORT,	FRANK HARDER RYDER,
CHARLES HARRISON DAVIS,	CLARENCE HATHORNE STAPLES,
HENRY LORANUS DAVIS,	WINTHROP TIRRELL,
WALTER FENNO DEARBORN,	PAYSON JACKSON TREAT,
GAYLORD WILLIAM DOUGLASS,	EMORY HAMMOND WESTLAKE,
CHARLES ALTON ELLIS,	WALTER BROWNE WILSON,
LEROY CONNELL FLOYD, JR.,	FRANK EVERETT WING,
PHILIP EUGENE GARRISON,	JOHN EDWIN WING,
LEROY ALBERT HOWLAND,	WALTER DUDLEY YATES.
ANNIE GRAY BIRDSEY,	MARY AGNES SALESKI,
DORA ISABEL BLACKMAN,	CATHERINE MAE SIMONTON.

The Degree of Bachelor of Philosophy was Conferred on

EDGERTON SAMUEL CAREY,	CHARLES EARL JOHNSTON,
FRED NORTH CLARK,	ROBERT WESLEY LANGFORD,
CYRUS LEROY CORLISS,	ROBERT EDWIN NIVISON,
ELLIOTT MINTON ELDREDGE,	RALPH W RYMER,
WILLIAM BRAINARD HINKLEY,	ARTHUR BOURNE SMITH,
HENRY ANDREWS INGRAHAM,	ISAAC CRAWFORD SUTTON,
	THOMAS TRAVIS.

ALICE BRIGHAM,	GRACE LEONA FOOTE,
MAE HUSE CHAPMAN,	GRACE MAUDE HULSE,
ELIZABETH ANNA COUGHLIN,	ANNA AGNES PRIOR,
GRACE BLAIR DARROW,	PERCIE JANET SMITH,
	JANE FRANCES WALSH.

The Degree of Bachelor of Science was Conferred on

ARTHUR WESLEY BROWNE, ASHTON WEYMOUTH DAVIS,
ROLLIN HILLIARD BURR, HALE POWERS.

The Degree of Master of Arts on Examination was Conferred on

BURDETTE ROSS BUCKINGHAM, B. A., 1899. Subjects: English Literature and French. Thesis: On the History and Early Influence of the English Reviews.

The Degree of Master of Science on Examination was Conferred on

PHILIP BOVIER HAWK, B. S., 1898. Subject: Physiological Chemistry. Thesis: A Study of Metabolism in the Human Organism.

MARGARET ELIZABETH JONES, Ph. B., 1899. Subject: Modern Languages. Thesis: On the Rise and Fall of Romanticism in France.

HONORARY DEGREES.**The Degree of Doctor of Divinity was Conferred on**

REV. DANIEL DORCHESTER, JR., of the Class of 1874, of St. Louis, Mo.

REV. LEVI GILBERT, of the Class of 1874, Editor of *The Western Christian Advocate*, Cincinnati, Ohio.

REV. PHILIP MELANCTHON WATTERS, of New York City.

The Degree of Doctor of Laws was Conferred on

THE REVEREND EDWARD GAYER ANDREWS, of the Class of 1847, Bishop of the Methodist Episcopal Church.

HIS EXCELLENCY GEORGE EDWARD LOUNSBURY, Governor of the State of Connecticut.

PROFESSOR JOHN MONROE VAN VLECK, of the Class of 1850.

PUBLICATIONS.

ALUMNI RECORD.—Through the liberality of Orange Judd, M. A., a Biographical Record of the Alumni of the University was published in 1869. A third edition of this Record, revised and corrected, was issued in June, 1883.

This edition contains not only the record of alumni, revised and corrected to the date of publication, but also a list of all former students not graduates, with their residences, and such other information with reference to them as the most thorough search could obtain. It also includes a bibliographical record, showing all the more important literary and scientific work done by alumni and members of the Faculty. Copies of this edition may be had on application to the librarian, W. J. James. The price of the Record, postage paid, is one dollar.

A fourth edition of the Supplement to the Alumni Record, containing an alphabetical list of the living graduates, with their honorary and professional degrees, their occupations, and their addresses, was published in August, 1899.

Information in regard to changes of address of alumni or in regard to any other facts suitable for future editions of the Record, is earnestly solicited. All who can furnish such information are requested to communicate with Professor F. W. Nicolson.

BULLETIN.—The *Bulletin* was first issued in 1888, and has since been published twice a year, (usually in May and November), under the direction of a committee of the Faculty. It contains accounts of trustee and alumni meetings, lists of recent gifts, statements of the most urgent needs of the University, changes in the Faculty and courses of study, department notes, and various other matters of interest to the alumni and friends of the institution. It is sent to the trustees and alumni, and may be obtained by other friends of the University upon application to the Secretary of the Faculty.

NECROLOGY.—A list of deceased graduates of the University is published annually in the Spring *Bulletin*. All persons who can supply information for future lists, are urgently requested to communicate the same to Professor F. W. Nicolson.

EMPLOYMENT BUREAU.



An employment bureau has been established in the office of the Secretary of the Faculty, for the purpose of securing positions as teachers for graduates of the college, and to provide opportunities for undergraduates to earn money towards paying their college expenses, either by work in Middletown during term time, or by work in Middletown or elsewhere during the summer vacation. Those who wish to avail themselves of the opportunity thus offered are invited to register; and the alumni and friends of the college are urgently requested to inform the Secretary of any vacancy coming to their notice which might be filled by a Wesleyan student or graduate. No fees are charged.

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CALENDAR.

1900.

Sept. 27, Thursday—First Term began.

Nov. 28-Dec 2, Thanksgiving Recess.

Dec. 21, Friday—First Term will close.

1901.

CHRISTMAS RECESS.

Jan. 3, Thursday—Second Term will begin.

Jan. 31, Thursday—Day of Prayer for Colleges—a holiday.

Feb. 4-16, Mid-year Examinations.

Feb. 22, Friday—Washington's Birthday—a holiday.

April 3, Wednesday—Second Term will close.

SPRING RECESS.

April 9, Tuesday—Third Term will begin.

April 13, Saturday—Last day for presenting Junior Exhibition Essays.

April 15, Monday—Last day for presenting Olin Prize Essays.

April 15, Monday—Last day for presenting applications for Preliminary and Special Honors.

April 15, Monday—Last day for presenting applications for Special Spring Examinations.

April 25, Thursday—Junior Exhibition.

May 20, Monday—Last day for presenting Joseph D. Weeks Prize Essays.

May 28, Tuesday—Prize Debate.

May 30, Thursday—Memorial Day—a holiday.

June 3, Monday—Senior Examination will begin.

June 10, Monday—Annual Examination will begin.

June 15, Saturday—Last day for presenting Special Honor Theses, and for Special Honor Examinations.

June 18, Tuesday—Last day for presenting Rich Prize Essays.

June 21, Friday—Prize Declamations.

June 23, Sunday morning—Baccalaureate Sermon.

June 23, Sunday evening—University Sermon.

June 24, Monday morning—Announcement of Award of Prizes.

1901.

- June 24, Monday afternoon—Class Day.
- June 24, Monday evening—Meeting of the Board of Trustees.
- June 25, Tuesday morning—Business Meeting of the Phi Beta Kappa Society.
- June 25, Tuesday morning—Business Meeting of the Alumni Association.
- June 25, Tuesday afternoon—Reunion of Classes of 1851, '76, '86, '91, '94, '98.
- June 25, Tuesday afternoon—Social Receptions by the College Fraternities.
- June 26, Wednesday—COMMENCEMENT.
- June 27, Thursday—Examination of candidates for admission will begin.

VACATION OF THIRTEEN WEEKS.

- Sept. 24, Tuesday—Special Examination for students deficient at the Annual Examination.
- Sept. 25, Wednesday—Examination of candidates for admission will begin.
- Sept. 26, Thursday—First Term will begin.



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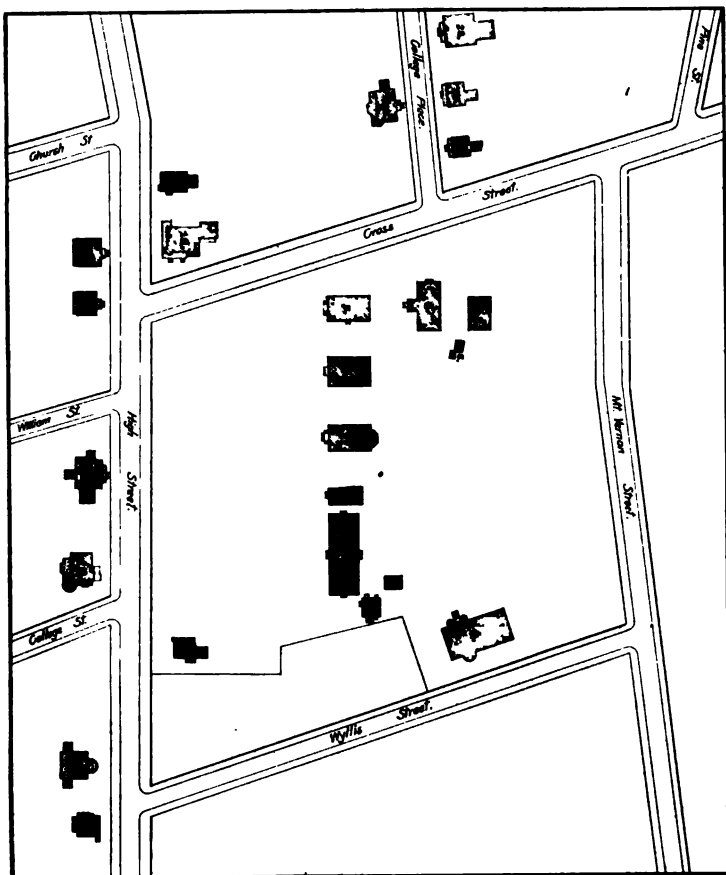
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Key to Plan of Wesleyan University Campus.

- | | |
|-----------------------------------|---------------------------------------|
| 1. NORTH COLLEGE. | 14. Δ. K. E. CLUB HOUSE. |
| 2. SOUTH COLLEGE. | 15. Ψ. Υ. CLUB HOUSE. |
| 3. MEMORIAL CHAPEL. | 16. WOMEN'S DORMITORY. |
| 4. RICH HALL, (Library). | 17. PROFESSOR BRADLEY'S HOUSE. |
| 5. JUDD HALL. | 18. ANNEX TO WOMEN'S DORMITORY. |
| 6. OBSERVATORY HALL. | 19. Α. Δ. Φ. CLUB HOUSE. |
| 7. CRYOGENIC LABORATORY. | 20. PROFESSOR VAN BENSCHOTEN'S HOUSE. |
| 8. TRANSIT HOUSE. | 21. PROFESSOR RICE'S HOUSE. |
| 9. FAYERWEATHER GYMNASIUM. | 22. PROFESSOR MERRILL'S HOUSE. |
| 10. BOILER HOUSE. | 23. Φ. P. CLUB HOUSE. |
| 11. ELECTRICAL LABORATORY. | 24. ECLECTIC CLUB HOUSE. |
| 12. PRESIDENT'S HOUSE. | |
| 13. PROFESSOR WINCHESTER'S HOUSE. | |



CALENDAR, 1901

JANUARY			MAY			SEPTEMBER			1902		
S	-	6 13 20 27	S	-	5 12 19 26	S	1 8 15 22 29	S	-	5 12 19 26	
M	-	7 14 21 28	M	-	6 13 20 27	M	2 9 16 23 30	M	-	6 13 20 27	
T	1	8 15 22 29	T	-	7 14 21 28	T	3 10 17 24 X	T	-	7 14 21 28	
W	2	9 16 23 30	W	1	8 15 22 29	W	4 11 18 25 X	W	1	8 15 22 29	
T	3	10 17 24 31	T	2	9 16 23 30	T	5 12 19 26 X	T	2	9 16 23 30	
F	4	11 18 25 X	F	3	10 17 24 31	F	6 13 20 27 X	F	3	10 17 24 31	
S	5	12 19 26 X	S	4	11 18 25 X	S	7 14 21 28 X	S	4	11 18 25 X	
FEBRUARY			JUNE			OCTOBER			FEBRUARY		
S	-	3 10 17 24	S	-	2 9 16 23 30	S	-	6 13 20 27	S	-	2 9 16 23
M	-	4 11 18 25	M	-	3 10 17 24 X	M	-	7 14 21 28	M	-	3 10 17 24
T	-	5 12 19 26	T	-	4 11 18 25 X	T	1	8 15 22 29	T	-	4 11 18 25
W	-	6 13 20 27	W	-	5 12 19 26 X	W	2	9 16 23 30	W	-	5 12 19 26
T	-	7 14 21 28	T	-	6 13 20 27 X	T	3	10 17 24 31	T	-	6 13 20 27
F	1	8 15 22 X	F	-	7 14 21 28 X	F	4	11 18 25 X	F	-	7 14 21 28
S	2	9 16 23 X	S	1	8 15 22 29 X	S	5	12 19 26 X	S	1	8 15 22 X
MARCH			JULY			NOVEMBER			MARCH		
S	-	3 10 17 24 31	S	-	7 14 21 28	S	-	3 10 17 24	S	-	2 9 16 23 30
M	-	4 11 18 25 X	M	1	8 15 22 29	M	-	4 11 18 25	M	-	3 10 17 24 31
T	-	5 12 19 26 X	T	2	9 16 23 30	T	-	5 12 19 26	T	-	4 11 18 25 X
W	-	6 13 20 27 X	W	3	10 17 24 31	W	-	6 13 20 27	W	-	5 12 19 26 X
T	-	7 14 21 28 X	T	4	11 18 25 X	T	-	7 14 21 28	T	-	6 13 20 27 X
F	1	8 15 22 29 X	F	5	12 19 26 X	F	1	8 15 22 29	F	-	7 14 21 28 X
S	2	9 16 23 30 X	S	6	13 20 27 X	S	2	9 16 23 30	S	1	8 15 22 29 X
APRIL			AUGUST			DECEMBER			APRIL		
S	-	7 14 21 28	S	-	4 11 18 25	S	1	8 15 22 29	S	-	6 13 20 27
M	1	8 15 22 29	M	-	5 12 19 26	M	2	9 16 23 30	M	-	7 14 21 28
T	2	9 16 23 30	T	-	6 13 20 27	T	3	10 17 24 31	T	1	8 15 22 29
W	3	10 17 24 X	W	-	7 14 21 28	W	4	11 18 25 X	W	2	9 16 23 30
T	4	11 18 25 X	T	1	8 15 22 29	T	5	12 19 26 X	T	3	10 17 24 X
F	5	12 19 26 X	F	2	9 16 23 30	F	6	13 20 27 X	F	4	11 18 25 X
S	6	13 20 27 X	S	3	10 17 24 31	S	7	14 21 28 X	S	5	12 19 26 X

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—OF—

WESLEYAN UNIVERSITY

1901-1902



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1363 Dean St., Brooklyn, N. Y.

HENRY CRUISE MURPHY INGRAHAM, M. A.,
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† REV. WEBSTER HARRISON PEARCE, D. D.,
Binghamton, N. Y.

WESLEYAN UNIVERSITY.

TERM EXPIRES IN 1903.

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Ralph Norton,	<i>Jamaica, N. Y.</i>	<i>A. Δ. Φ. House.</i>
† Lucius Loren Palmer,	<i>Malone, N. Y.</i>	<i>Δ. K. E. House.</i>
§ Jesse Lyndon Parker,	<i>Danversport, Mass.</i>	<i>B. O. H. House.</i>
Fletcher Hurst Parsons,	<i>Paterson, N. J.</i>	<i>Φ. P. House.</i>
§ Leland Stanley Pierson,	<i>Wilkes-Barre, Pa.</i>	<i>X. Y. Lodge.</i>
§ Martin Prucha,	<i>Cleveland, O.</i>	<i>Φ. P. House.</i>
Robert Henry Rippere,	<i>Brooklyn, N. Y.</i>	<i>X. Y. Lodge.</i>
§ Wallace Leveritt Root,	<i>Cromwell.</i>	<i>9 Foss House.</i>
† John Tanner Russell,	<i>N. Granville, N. Y.</i>	<i>Δ. K. E. House.</i>
Herbert Bronson Shonk,	<i>Plymouth, Pa.</i>	<i>A. Δ. Φ. House.</i>
Harry Huntington Smith,	<i>Brattleboro, Vt.</i>	<i>Φ. P. House.</i>
Robinson Spencer,	<i>Philadelphia, Pa.</i>	<i>Y. Y. House.</i>
George Franklin Strong,	<i>Natick, Mass.</i>	<i>246 High St.</i>
Frank Vanhaag Stutsman,	<i>Harrisburg, Pa.</i>	<i>A. Δ. Φ. House.</i>
James Rogers Veitch,	<i>South Manchester.</i>	<i>13 N. C.</i>



NAMES.	RESIDENCES.	ROOMS.
§ John Christie Ware,	<i>Allendale, N. J.</i>	<i>1 Foss House.</i>
§ George Marvin Warner,	<i>East Berlin.</i>	<i>1 Foss House.</i>
William Hoyt Weber,	<i>Stamford.</i>	<i>Y. Y. House.</i>
Ernest Wrigley Woodruff,	<i>Waterbury.</i>	<i>Δ. K. E. House.</i>
Theodore Basil Young,	<i>Andover, N. J.</i>	<i>Φ. P. House.</i>
Mary Elizabeth Bagg,	<i>Brattleboro, Vt.</i>	<i>274 High St.</i>
§ Zelia Almira Cutler,	<i>West Acton, Mass.</i>	<i>78 Lawn Ave.</i>
§ Vivian Elaine Gladwin,	<i>Middletown.</i>	<i>271 Washington St.</i>
Faith Eleanor Hills,	<i>East Hampton.</i>	<i>East Hampton.</i>
§ Minnie Clara Rigby,	<i>Middletown.</i>	<i>12 Pearl St.</i>
§ Ethel Ray Sawyer,	<i>South Meriden.</i>	<i>238 High St.</i>

SOPHOMORE CLASS.

NAMES.	RESIDENCES.	ROOMS.
Harry Leslie Agard,	<i>South Manchester.</i>	<i>246 High St.</i>
Raymond Dinsmore Allen,	<i>East Weymouth, Mass.</i>	<i>246 High St.</i>
† Harry Clark Alvord,	<i>Bridgeport.</i>	<i>B. Θ. Π. House.</i>
William Harvey Bath,	<i>St. Clair, Pa.</i>	<i>20 N. C.</i>
† Owen Chauncy Becker,	<i>Grosvenor's, N. Y.</i>	<i>X. Y. Lodge.</i>
† John Bentley, Jr.,	<i>Brooklyn, N. Y.</i>	<i>54 N. C.</i>
Charles Guy Brown,	<i>Livermore Falls, Me.</i>	<i>4 N. C.</i>
Roland Jay Buntin,	<i>Bridgeport.</i>	<i>43 N. C.</i>
§ James Edward Butler,	<i>Sackett's Harbor, N. Y.</i>	<i>9 Foss House.</i>
Arthur Stanley Copeland,	<i>Buffalo, N. Y.</i>	<i>4 N. C.</i>
Myron Cady Cramer,	<i>Oneida, N. Y.</i>	<i>250 High St.</i>
§ Benjamin Coe Crowell,	<i>Middletown.</i>	<i>28 Lawn Ave.</i>
§ Louis De Voursney Day,	<i>Morristown, N. J.</i>	<i>250 High St.</i>
† Gerald Birch Demarest,	<i>Passaic, N. J.</i>	<i>250 High St.</i>
John Francis Dunkerke,	<i>Windsor.</i>	<i>13 Foss House.</i>
Allan Ferguson,	<i>Middletown.</i>	<i>100 High St.</i>
Frank Pearl Fletcher,	<i>Plymouth, N. H.</i>	<i>8 Foss House.</i>
† Ralph John Folsome,	<i>East Livermore, Me.</i>	<i>10 Foss House.</i>

NAMES.	RESIDENCES.	ROOMS.
Frank Nugent Freeman,	<i>Ontario, Cal.</i>	<i>502 High St.</i>
Harry Nichols French,	<i>Bridgeport.</i>	<i>Δ. K. E. House.</i>
Charles Henry Garrison,	<i>Paterson, N. J.</i>	<i>250 High St.</i>
John McGregor Gibb, Jr.,	<i>Philadelphia, Pa.</i>	<i>Φ. P. House.</i>
Asa Russell Gifford,	<i>Cottage City, Mass.</i>	<i>246 High St.</i>
§ Robert Wallace Gillispie,	<i>Brooklyn, N. Y.</i>	<i>37 N. C.</i>
† Kenneth Mackerness Goode,	<i>Middletown.</i>	<i>270 College St.</i>
Benjamin Wright Guernsey,	<i>Winchester, Mass.</i>	<i>58 N. C.</i>
† Henry Chauncey Guernsey,	<i>Winchester, Mass.</i>	<i>58 N. C.</i>
§ Clarence Brainerd Guy,	<i>Middletown.</i>	<i>X. Y. Lodge.</i>
Clifford Watson Hall,	<i>New Canaan.</i>	<i>36 N. C.</i>
† Wilbur Butler Harlow,	<i>Brooklyn, N. Y.</i>	<i>Δ. K. E. House.</i>
Clarence R. Hickok,	<i>Wilkes-Barre, Pa.</i>	<i>19 Cross St.</i>
§ Ernest George Nosworthy Holmes,	<i>Wilkes-Barre, Pa.</i>	<i>19 Cross St.</i>
§ Samuel Foss Holmes,	<i>Kent's Hill, Me.</i>	<i>6 N. C.</i>
† Merritt Judson Hopkins,	<i>Miller Place, N. Y.</i>	<i>Φ. P. House.</i>
Roy Smith Hurd,	<i>Westminster Depot, Mass.</i>	<i>17 Cross St.</i>
§ Olin Ingraham,	<i>Brooklyn, N. Y.</i>	<i>178 Church St.</i>
§ William Stillwell Jackson,	<i>Brooklyn, N. Y.</i>	<i>B. Θ. II. House.</i>
Edwin Chester Jones,	<i>Southport.</i>	<i>37 N. C.</i>
Ralph Welles Keeler,	<i>Windsor.</i>	<i>B. Θ. II. House.</i>
† Walter Palmer Keeler,	<i>Malone, N. Y.</i>	<i>Δ. K. E. House.</i>
† Wilbur Carlton Knowles,	<i>Washington.</i>	<i>8 Foss House.</i>
Howard Fifield Legg,	<i>Worcester, Mass.</i>	<i>44 N. C.</i>
§ Patrick Joseph McDonnell, Jr.,	<i>Archbald, Pa.</i>	<i>250 High St.</i>
§ Edgar MacNaughten,	<i>Montclair, N. J.</i>	<i>246 High St.</i>
Charles Weatherwax Nethaway,	<i>Newburgh, N. Y.</i>	<i>250 High St.</i>
† George Merriam Newell,	<i>Uxbridge, Mass.</i>	<i>Φ. P. House.</i>
Paul Nixon,	<i>Braintree, Mass.</i>	<i>246 High St.</i>
Howard Stimson Packard,	<i>Springfield, Mass.</i>	<i>43 N. C.</i>
§ Ray Nathan Randall,	<i>Anson, Me.</i>	<i>246 High St.</i>
§ Harold Bradford Raymond,	<i>Middletown.</i>	<i>311 High St.</i>
Samuel Talcott Reynolds,	<i>Middletown.</i>	<i>246 High St.</i>
Howard MacMillan Richard,	<i>New York, N. Y.</i>	<i>38 N. C.</i>
† George Rocker,	<i>Brooklyn, N. Y.</i>	<i>B. Θ. II. House.</i>
Moses Stuart Rogers,	<i>South Manchester.</i>	<i>29 N. C.</i>
§ Stetson Kilbourne Ryan,	<i>Middletown.</i>	<i>241 Court St.</i>
Ernest Walter Schmidt,	<i>South Manchester.</i>	<i>27 N. C.</i>

NAMES.	RESIDENCES.	ROOMS.
John Ferdinand Schneider,	<i>Scranton, Pa.</i>	X. Y. Lodge.
† Edwin Henry Schutt,	<i>New York, N. Y.</i>	19 Cross St.
§ Harry Gregory Seides,	<i>Binghamton, N. Y.</i>	36 N. C.
§ Henry Gustav Shailer,	<i>Middletown.</i>	70 Loveland St.
Tracy Smith,	<i>Waterbury.</i>	44 N. C.
Edward Lindsley Stasse,	<i>East Orange, N. J.</i>	B. O. II. House.
Frank Chillson Stevens,	<i>Hartland, Vt.</i>	9 Foss House.
§ Charles Akin Stone,	<i>Troy, N. Y.</i>	Y. Y. House.
§ Warren Sutcliffe Wallace,	<i>Montclair, N. J.</i>	246 High St.
Henry Adelbert White,	<i>Pompey Centre, N. Y.</i>	Φ. P. House.
David Day Whitney,	<i>East Brookfield, Vt.</i>	Φ. P. House.
Harold Edmund Wilson,	<i>Penacook, N. H.</i>	38 N. C.
§ James Elijah Wilson,	<i>Middletown.</i>	39 N. C.
Myron John Wilson,	<i>East Troupsburg, N. Y.</i>	246 High St.
Watson Woodruff,	<i>Berlin.</i>	Φ. P. House.
§ Helen Veronica Bransfield,	<i>Portland.</i>	274 High St.
§ Amy Eliza Davis,	<i>Middletown.</i>	299 College St.
† Annie Fisher,	<i>Hartford. 21 Canton St., Hartford.</i>	
§ Helen Louise Gilbert,	<i>Middletown.</i>	150 Grand St.
§ Margaret Bacon Griswold,	<i>Wethersfield.</i>	274 High St.
Ethel Gertrude Reynolds,	<i>Middletown.</i>	246 College St.
Mary Elizabeth Smith,	<i>Portland.</i>	274 High St.
Marguerite van Benschoten,	<i>Middletown.</i>	231 High St.
§ Elizabeth Matilda Veazey,	<i>Middletown.</i>	247 College St.

FRESHMAN CLASS.

NAMES.	RESIDENCES.	ROOMS.
Hanford Curtis Adams,	<i>Millbrook, N. Y.</i>	49 N. C.
§ Henry Foster Adams,	<i>Clifton Springs, N. Y.</i>	50 N. C.
Walter Sinclair Adams,	<i>Salem, Mass.</i>	10 Foss House.
† Ames Scribner Albro,	<i>Orchard Lake, Mich.</i>	64 N. C.
§ James Sidney Ames,	<i>Binghamton, N. Y.</i>	250 High St.

NAMES.	RESIDENCES.	ROOMS.
Frank Chester Becker,	<i>Plymouth, Pa.</i>	9 N. C.
† Adolph Burnett Benson,	<i>East Berlin.</i>	37 <i>Fountain Ave.</i>
§ Allen Reynolds Bishop,	<i>Baltimore, Md.</i>	41 N. C.
† John Edward Boultenhouse,	<i>South Portland, Me.</i>	15 N. C.
§ John Franklin Boyd,	<i>Wilmington, Vt.</i>	19 N. C.
Grow Stanley Brown,	<i>Canton, Pa.</i>	47 N. C.
§ Thomas Ward Burnett,	<i>Summit, N. Y.</i>	X. Y. <i>Lodge.</i>
§ Ernest Clifford Chichester,	<i>Patchogue, N. Y.</i>	B. O. II. <i>House.</i>
† Edward Fratus Congdon,	<i>New Haven.</i>	11 N. C.
† Minn S Cornell,	<i>Brooklyn, N. Y.</i>	34 N. C.
Clarence Dennys Coughlin,	<i>Wilkes-Barre, Pa.</i>	B. O. II. <i>House.</i>
† Abraham Crosley,	<i>Middletown.</i>	96 <i>Pearl St.</i>
§ John McIntyre Davis,	<i>Brooklyn, N. Y.</i>	33 N. C.
§ John Bates Eyster,	<i>York, Pa.</i>	45 N. C.
§ Nathan Hayes Fairchild,	<i>Syracuse, N. Y.</i>	62 N. C.
Howard Brigham Field,	<i>East Hampton.</i>	59 N. C.
Herbert James Flower,	<i>Passaic, N. J.</i>	34 N. C.
§ Daniel Roy Freeman,	<i>Ontario, Cal.</i>	502 <i>High St.</i>
Norman Scott Garrison,	<i>Paterson, N. J.</i>	61 N. C.
Frederick Herbert Gilman,	<i>Winterport, Me.</i>	28 N. C.
Stewart Freeman Hancock,	<i>Syracuse, N. Y.</i>	63 N. C.
† Samuel Ward Harris, Jr.,	<i>Fitchburg, Mass.</i>	9 N. C.
William Mortimer Heisler,	<i>Philadelphia, Pa.</i>	47 N. C.
Henry Alfred Holmes,	<i>Kent's Hill, Me.</i>	6 N. C.
§ Donald Gilbert Hoyt,	<i>Valley Falls, N. Y.</i>	18 N. C.
§ Harold Wardwell Hoyt,	<i>Stamford.</i>	35 N. C.
Samuel William Jennings,	<i>York, Pa.</i>	45 N. C.
§ Howard Emery Ambler Jones,	<i>Middletown.</i>	22 <i>Wyllys Ave.</i>
§ Howard Wilson Kendall,	<i>Holyoke, Mass.</i>	17 N. C.
§ Martin Hobart Knapp,	<i>Syracuse, N. Y.</i>	57 N. C.
Oliver Josiah Krause,	<i>Salisbury, Md.</i>	70 <i>Pine St.</i>
Ralph Wendell Leighton,	<i>Portland, Me.</i>	10 N. C.
John Whiteman Locke,	<i>Williamstown, Mass.</i>	46 N. C.
§ Ralph Edward Martin,	<i>Warren, Mass.</i>	27 N. C.
§ Rufus Wellington Mathewson,	<i>Durham.</i>	
Ralph Hooker Mix,	<i>Stamford.</i>	17 N. C.
§ Hugh Montgomery,	<i>West Medford, Mass.</i>	62 N. C.
§ Julian Cephas Morgan,	<i>Stamford.</i>	B. O. II. <i>House.</i>

NAMES.	RESIDENCES.	ROOMS.
Victor Caryl Myers,	<i>Buskirk, N. Y.</i>	49 N. C.
George Avery Neeld,	<i>Middletown.</i>	<i>Brainerd Ave.</i>
George Bradford Neumann,	<i>New Britain.</i>	12 N. C.
† John Slayback Olney,	<i>New York, N. Y.</i>	59 N. C.
† Herman Frederick Onthrup,	<i>Middletown.</i>	29 N. C.
Thomas Merritt Pendexter,	<i>Haverhill, Mass.</i>	18 N. C.
§ Edward Randall Plumb,	<i>Syracuse, N. Y.</i>	63 N. C.
§ John Arthur Randall,	<i>Portland, Me.</i>	10 N. C.
George Greenwood Reynolds, 2d,	<i>Brooklyn, N. Y.</i>	178 Church St.
† Horace Jacobs Rice,	<i>Springfield, Mass.</i>	246 High St.
§ Ralph Pratt Rippere,	<i>Brooklyn, N. Y.</i>	X. Y. Lodge.
§ Sylvester Parker Robertson,	<i>South Coventry.</i>	19 N. C.
† Joshua Lester Robins,	<i>Sand Lake, N. Y.</i>	30 N. C.
§ Ralph Bingham Shipman,	<i>East Pepperell, Mass.</i>	30 N. C.
§ Hoyt Post Simmons,	<i>Brooklyn, N. Y.</i>	33 N. C.
§ Edson Field Starks,	<i>Troy, N. Y.</i>	Δ. K. E. House.
§ Ray Oscar Stephens,	<i>Clifton Springs, N. Y.</i>	50 N. C.
† James Pomeroy Stow, Jr.,	<i>Middletown.</i>	179 College St.
† Francis Lambert Thornberry,	<i>Bridgeport.</i>	B. Θ. Π. House.
George Edmunds Tolman,	<i>Springfield, Mass.</i>	28 N. C.
Burr de Forest Vail,	<i>Montdale, Pa.</i>	61 N. C.
† Henderson Edmund Van Surdam,	<i>Hoosick Falls, N. Y.</i>	64 N. C.
Thomas Alexander West,	<i>Saco, Me.</i>	11 N. C.
Chauncey Amos Williams,	<i>Sharon.</i>	35 N. C.
† Howard Leighton Winslow,	<i>Woodfords, Me.</i>	14 Foss House.
§ Frances Jarvis Baylis,	<i>Amityville, N. Y.</i>	274 High St.
§ Ruth Burr Bonfoey,	<i>Middletown.</i>	181 Court St.
§ Ruth Dean,	<i>Middletown.</i>	<i>Newfield St.</i>
Matilda Aurora Hanson,	<i>Perth Amboy, N. J.</i>	274 High St.
† Daisy Helena Lohr,	<i>Stamford.</i>	274 High St.
† Maude Stuart Newell,	<i>Middletown.</i>	64 South Main St.
Clara Frances Sykes,	<i>Whitinsville, Mass.</i>	238 High St.
§ Anna Madeline Vanderbrouk,	<i>Middletown.</i>	494 Main St.

SPECIAL STUDENTS.

NAMES.	RESIDENCES.	ROOMS.
Ernest Merriam Churchill,	<i>Middletown.</i>	<i>14 Foss House.</i>
Charles Harvey Northam, Jr.,	<i>Hartford.</i>	<i>250 High St.</i>
Joseph Brown Sessions,	<i>Bristol.</i>	<i>X. Y. Lodge.</i>
Ernest Melville Swett,	<i>South Paris, Me.</i>	<i>246 High St.</i>
Charlotte Robinson Manning,	<i>Meriden.</i>	<i>274 High St.</i>

SUMMARY.

	MEN.	WOMEN.	TOTAL.
GRADUATE STUDENTS, - - - - -	6	5	11
SENIORS, - - - - -	58	18	76
JUNIORS, - - - - -	66	6	72
SOPHOMORES, - - - - -	71	9	80
FRESHMEN, - - - - -	68	8	76
SPECIAL STUDENTS, - - - - -	4	1	5
TOTAL, - - - - -	273	47	320

ABBREVIATIONS.

N. C., - - - - -	North College.
S. C., - - - - -	South College.
O. H., - - - - -	Observatory Hall.
J. H., - - - - -	Judd Hall.
§ - - - - -	Latin-Scientific Course.
† - - - - -	Scientific Course.

GENERAL STATEMENT.

COURSES OF STUDY.—The College presents to its undergraduate students the option of three parallel courses of study, each extending through four years, named respectively the Classical Course, the Latin-Scientific Course, and the Scientific Course.

In the Classical Course, the study of Latin and Greek forms a large part of the required work of the first year. In the Latin-Scientific Course, Greek is omitted, and, in the Scientific Course, both Greek and Latin are omitted, in order to give more extended opportunity for the study of modern languages, science, and literature.

REQUIRED AND ELECTIVE STUDIES.—In each of the foregoing courses, nearly all the studies of the first year are required. In the three remaining years, the amount of required work is progressively diminished, the student being allowed to complete his quota by selecting from a wide range of elective studies. He is expected, however, to regulate his choice so that his electives will together form an harmonious and symmetrical course of study; and in no case is a student allowed to select a study which he is not, in the judgment of his instructors, qualified to pursue with advantage.

SPECIAL COURSES.—Students who do not desire to complete any one of the foregoing courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood that this provision is intended for the benefit, not of those students who are incompetent to take one of the regular courses, but of those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended

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NAMES.	RESIDENCES.	ROOMS.
Ernest Merrion Churchill,	<i>Middletown.</i>	<i>14 Foss House.</i>
Charles Harvey Northam, Jr.,	<i>Hartford.</i>	<i>250 High St.</i>
Joseph Brown Sessions,	<i>Bristol.</i>	<i>X. Y. Lodge.</i>
Ernest Melville Swett,	<i>South Paris, Me.</i>	<i>246 High St.</i>
Charlotte Robinson Manning,	<i>Meriden.</i>	<i>274 High St.</i>

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SPECIAL COURSES.—Students who do not desire to complete any one of the foregoing courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood that this provision is intended for the benefit, not of those students who are incompetent to take one of the regular courses, but of those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended

courses of study in particular departments. Such special students will be expected to attend all exercises assigned them, and will be subject to all the general rules of the college.

GRADUATE STUDIES.—Extended instruction is given to those who wish to pursue graduate courses of study in any of the departments. Further information concerning such graduate courses is given in the reports of the several departments on Courses of Instruction, and also in connection with the statement of conditions for the degrees of Master of Arts and Master of Science.



TERMS OF ADMISSION.

CLASSICAL COURSE.*

Candidates for admission to the Classical Course are examined in the following subjects:—

- LATIN.—1. Latin grammar, including prosody.
2. Caesar,—Gallic War, books I.–IV.
3. Cicero,—the four orations against Catiline, and those for Archias and for the Manilian Law.
4. Vergil,—Æneid, books I.–VI., and Eclogues.
5. Translation at sight into English of passages of Latin, both prose and poetry, of average difficulty.
6. Translation into Latin of simple English sentences and of easy narrative passages based on the prose authors read.

With the passages set under headings 5 and 6, a vocabulary of the less common words is supplied.

In place of the requirements specified under headings 2, 3, and 4, equivalent readings will be accepted, but, in general, prose will not be accepted instead of poetry, nor *vice versa*.

The Roman system of pronunciation is exclusively used in all the Latin work of the college course, and it is expected that applicants for admission will be well versed in it.

It is urged that candidates be well drilled in the observance of the laws of quantity in oral reading, especially in Vergil and Ovid.

GREEK.—1. Greek grammar, including prosody,—Hadley-Allen's or Goodwin's.

2. Xenophon,—Anabasis, books I.–IV.
3. Homer,—Iliad, books I.–III.
4. Translation at sight of one or more passages from Xenophon.
5. Translation into Greek of easy narrative passages based on the required books of the Anabasis.

* For announcement of prize for excellence in the studies preparatory to admission, see "Ayres Prize."

ANCIENT HISTORY AND GEOGRAPHY.—1. History of Rome to the death of Marcus Aurelius.

2. History of Greece to the capture of Corinth, 146 B. C.
3. Ancient geography.

The following books are recommended as the basis of instruction in ancient history and geography:—

1. Botsford's History of Rome.
2. Botsford's History of Greece.
3. Tozer's Primer of Ancient Geography.

Familiarity with map-drawing is also especially desirable.

MATHEMATICS.—1. Algebra,—Fundamental operations, factors, common divisors and multiples, fractions, negative quantities and the interpretation of negative results, powers and roots, the binomial theorem for positive integral exponents, radicals, equations of the first and second degrees with one or more unknown quantities, putting problems into equations, ratios and proportions, arithmetical and geometrical progressions.

2. Plane geometry,—Demonstrations, constructions, and solutions of numerical problems.

ENGLISH.—1. *Reading and Practice.* A limited number of books are assigned for reading. The candidate is required to present evidence of a general knowledge of the subject-matter of these books, and to answer simple questions on the lives of their authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and calls for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present an exercise book, properly certified to by his instructor, containing compositions or other written work done in connection with the reading of the books. In preparation for this part of the requirement, it is important that the candidate shall have been instructed in the fundamental principles of rhetoric.

The books set for this part of the examination will be:—

1902—Shakspere's Merchant of Venice; Pope's Iliad, Books I., VI., XXII., and XXIV.; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's Vicar of Wakefield; Coleridge's Ancient Mariner; Scott's Ivanhoe; Cooper's Last of the Mohicans; Tennyson's Princess; Lowell's Vision of Sir Launfal; George Eliot's Silas Marner.

1903, 1904, and 1905—Shakspere's Merchant of Venice and Julius Caesar; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's Vicar of Wakefield; Coleridge's Ancient Mariner; Scott's Ivanhoe; Carlyle's Essay on Burns; Tennyson's Princess; Lowell's Vision of Sir Launfal; George Eliot's Silas Marner.

2. *Study and Practice.* A smaller number of books are assigned for more careful study. The examination upon these books covers subject-matter, form, and structure, and also tests the candidate's ability to express his knowledge with clearness and accuracy. In addition, the candidate may be required to answer questions involving the essentials of English grammar, and questions on the leading facts in those periods of English literary history to which the prescribed works belong.

The books set for this part of the examination will be:—

1902, 1903, 1904, and 1905—Shakspere's Macbeth; Milton's Lycidas, Comus, L'Allegro, and Il Penseroso; Burke's Speech on Conciliation with America; Macaulay's Essays on Milton and on Addison.

NOTE.—No candidate will be accepted in English whose work is notably defective in point of spelling, punctuation, idiom, or division into paragraphs.

LATIN-SCIENTIFIC COURSE.

Candidates for admission to the Latin-Scientific Course are examined in the following subjects:—

LATIN.—Same requirements as for the Classical Course.

ANCIENT HISTORY AND GEOGRAPHY.—Same requirements as for the Classical Course, including Greek history and geography.

MATHEMATICS.—Same requirements as for the Classical Course.

ENGLISH.—Same requirements as for the Classical Course.

Four additional courses, to be selected from the following list (provided that at least one course in modern languages must be selected):—

1. **ELEMENTARY FRENCH** (counting as two courses).—Such a knowledge of the language is required as may be obtained by the reading of at least 400 pages, part of which should be read at sight. The examination consists of easy passages at sight, elementary grammatical questions, and the translation of simple English sentences into French. To meet this requirement two years' work will generally be necessary.

2. **ELEMENTARY GERMAN** (counting as two courses).—Such a knowledge of the language is required as may be obtained by the reading of at least 300 pages, part of which should be read at sight. The examination consists of easy passages at sight, elementary grammatical questions, and the translation of simple English sentences into German. To meet this requirement two years' work will generally be necessary.

3. **ADVANCED FRENCH**.—The requirement includes the reading of not less than 600 additional pages of French (including at least two works of a dramatic character), and regular practice in writing and speaking French. At least one additional year of study will be necessary to meet this requirement.

4. **ADVANCED GERMAN**.—The requirement includes the reading of at least 300 additional pages of German (not more than half of which should be fiction), and regular practice in writing and speaking German. At least one additional year of study will be necessary to meet this requirement.

5. **ADVANCED MATHEMATICS** (counting as two courses).—(1) Solid geometry. (2) Plane trigonometry, with the use of logarithmic and trigonometric tables. (3) Analytical geometry,—the straight line, the circle, and elementary properties of the conic sections.

6. **PHYSICAL GEOGRAPHY AND BOTANY**.—(1) In physical geography, such a knowledge of the subject is required as may be gained from the study of Geikie's *Elementary Lessons in Physical Geography*, Tarr's *Elementary Physical Geography*, Davis and Snyder's *Physical Geography*, Hinman's *Eclectic Physical Geography*, or Dryer's *Lessons in Physical Geography*.

(2) In botany, the candidate must show such a knowledge of the subject as may be gained from either (1) the study of morphological and structural botany, as included in the more recent elementary botanical text-books of Spaulding or Bergen; or (2) the study of Gray's Lessons in Botany, accompanied by analysis and description of flowers.

7. PHYSICS.—(1) Such a knowledge of the subject is required as may be gained from Carhart and Chute's Elements of Physics, Gage's Elements of Physics, Avery's School Physics, Wentworth and Hill's Text-book of Physics, or Hoadley's Brief Course in Physics.

(2) The candidate must also have performed a series of at least thirty experiments *involving careful measurements*, in addition to any qualitative or very simple quantitative experiments he may have performed, and must present his original note-book, containing full records of the experiments, and certified to by his instructor. Such experiments as the exercises in Hall and Bergen's Text-book of Physics, the experiments in Chute's Physical Laboratory Manual, or the quantitative experiments in Stone's Experimental Physics, will be considered satisfactory.

8. CHEMISTRY.—(1) Such a knowledge of the subject is required as may be gained from Storer and Lindsay's Manual of Chemistry (omitting pp. 230-286), or from Remsen's Chemistry, Elementary Course.

(2) The candidate must also have performed a series of at least fifty experiments, and must present his original note-book, containing records of the processes and results of the experiments, and certified to by his instructor.

9. HISTORY OF ENGLAND AND OF THE UNITED STATES.—Such a knowledge of the subject is required as may be gained from Montgomery's Leading Facts of English History, and Johnston's History of the United States for Schools or Montgomery's Leading Facts of American History.

SCIENTIFIC COURSE.

Candidates for admission to the Scientific Course are examined in the following subjects:—

MATHEMATICS.—Same requirements as for the Classical Course.

ENGLISH.—Same requirements as for the Classical Course.

HISTORY OF ENGLAND AND OF THE UNITED STATES, as specified on page 31.

Eight additional courses, to be selected from the following list (provided that at least one course in modern languages and at least one course in natural science must be selected):—

1. ELEMENTARY LATIN (counting as two courses).—Grammar, Caesar's Gallic War, books I.-IV.; translation into Latin of simple English sentences.

2. ADVANCED LATIN.—(1) *Either* Cicero,—the four orations against Catiline, and those for Archias and for the Manilian Law; *or* Vergil,—Æneid, books I.-VI., and Eclogues. (2) Translation at sight into English of passages of easy narrative prose Latin.

3. ADVANCED MATHEMATICS (counting as two courses), as specified on page 30.

4. ELEMENTARY FRENCH (counting as two courses), as specified on page 30.

5. ELEMENTARY GERMAN (counting as two courses), as specified on page 30.

6. ADVANCED FRENCH, as specified on page 30.

7. ADVANCED GERMAN, as specified on page 30.

8. PHYSICAL GEOGRAPHY AND BOTANY, as specified on pages 30 and 31.

9. PHYSICS, as specified on page 31.

10. CHEMISTRY, as specified on page 31.

SPECIAL COURSES.

Special students, not candidates for a degree, may be admitted, upon passing such examinations as the Faculty shall in each case prescribe. (See also page 25.)

GENERAL REGULATIONS CONCERNING ADMISSION.

ADVANCED STANDING.—All candidates for advanced standing are examined in the preparatory studies, and also in those previously pursued by the classes they propose to enter, or in other studies equivalent to them. No candidate can be admitted later than at the beginning of the Senior year.

PRELIMINARY EXAMINATIONS.—A candidate for admission may obtain a preliminary record a year or more in advance of the time at which he expects to enter college, on condition of passing, in the June and September examinations of any year taken together, in the equivalent of at least half of the requirements for admission. Teachers and prospective candidates for admission may obtain from the Secretary of the Faculty on demand a schedule of the values which will be assigned to each subject by the Faculty in determining the question of a student's preliminary record.

DATE AND PLACE OF EXAMINATIONS.—The regular examination for admission is held on the Thursday and Friday of Commencement week. Candidates must present themselves at South College at 9 A. M. on the former day. A second examination is held, commencing on the day preceding the first day of the first term. Candidates may be examined in Philadelphia, Cleveland, Cincinnati, or Chicago, provided they make application to the President before June 1. The time of these examinations will be Thursday and Friday of Commencement week. If no applications are received before June 1, these examinations will not be held.

ADMISSION BY CERTIFICATE.—Certificates covering the foregoing requirements for admission to college are received from certain schools of good standing, which have been approved by the Faculty. The privilege of certification is not given to schools which require less than four years of Latin and three years of Greek in their college preparatory course.

Diplomas (but not certificates) issued by the Regents of the University of the State of New York, and pass cards supplementary to such diplomas, will be received in lieu of examination in the subjects which they cover.

Students entering by certificate are considered as on trial until the completion of the mid-year examinations. A student admitted to college on certificate, who is dismissed during his Freshman year on account of inability to keep up with his class, must take examinations in all subjects required for admission, in case he desires to return to college.

Detailed information concerning admission by certificate may be obtained on application to the Secretary of the Faculty.

ADMISSION OF WOMEN.—At their annual meeting in June, 1900, the Trustees of the University passed the following resolution: "The University will admit women in a number limited to those who can be accommodated in the college buildings and in their own homes in Middletown, and the number in the University shall be limited to twenty per cent. of the whole number of students in the preceding year."

In view of the limitation of the number of women to be admitted, all women desiring admission should, if possible, make application to the Secretary of the Faculty before June 15th, though applications made later will in some cases be considered.

Miss A. A. Fisher, M. A., Dean of Women, has general oversight of the interests of the women students, and correspondence from women on all matters, except admission, course of study, and tuition scholarships, should be addressed to her.

All candidates for admission must present satisfactory testimonials of good moral character; and certificates of regular dismission will be required from those who have been members of other colleges.

COURSES OF INSTRUCTION.

For regulations concerning selection of studies, see page 69.

The figures ¹ or ² following the number of a course indicate respectively that the course is offered for the first or the second half-year.

The place of meeting of each course is indicated by means of the following abbreviations: N. C.=North College; S. C.=South College; L. CH.=Lower Chapel; L. CH. 2=Small recitation room, Lower Chapel; J. H.=Judd Hall; O. H.=Observatory Hall; CHEM. LAB., PHYS. LAB., BIOL. LAB.=Chemical, Physical, Biological Laboratory.

The Roman numerals in parenthesis following each course indicate the examination group to which it is assigned. For table of groups, see pages 67 and 68.

An asterisk prefixed to the number of a course indicates that it can be elected only with the previous approval of the instructor.

LATIN.

PROFESSOR MERRILL; ASSOCIATE PROFESSOR NICOLSON;
DR. CHASE.

NOTE.—Of the courses indicated below, I.-VII. are given every year, while of VIII.-XX. each is given every second year, the bracketed courses being omitted the present year.

I. LIVY,—Books 21 and 22 (*first half-year*). TERENCE,—Phormio; PLAUTUS,—Captivi; CICERO,—De Senectute (*second half-year*). Exercises in sight translation and in prose composition throughout the year. SECTION 1, *Mon., Wed., Th., Fri., at 9*; SECTION 2, *Mon., Wed., Th., Fri., at 11*; SECTION 3, *Mon., Wed., Th., Fri., at 12*. 5 S. C. PROFESSOR NICOLSON AND DR. CHASE. (II.)

Course I. is required of Classical and Latin-Scientific Freshmen.

II.¹ CICERO,—Selected Letters. *Tu., Th., at 9 (first half-year)*. 40 N. C. PROFESSOR MERRILL. (VIII.)

III.² PLINY THE YOUNGER,—Selected Letters. *Tu., Th., at 9 (second half-year)*. 40 N. C. PROFESSOR MERRILL. (VIII.)

IV.¹ HORACE,—Satires and Epistles. *Tu., Th., at 3 (first half-year)*. 5 S. C. DR. CHASE. (XII.)

V.² HORACE,—Odes and Epodes. *Tu., Th., at 3 (second half-year).* 5 S. C. DR. CHASE. (XII.)

VI. LATIN PROSE COMPOSITION. The course begins with the systematic study of the elementary principles of Latin rhetoric, accompanied by brief practical exercises, and proceeds, in the second half-year, to the rendering into Latin of connected passages of modern historical and epistolary prose. *Mon., at 3.* 3 S. C. DR. CHASE.

Courses II.—VI. are elective for those who have taken Course I. Courses I., VI., and any two of Courses II.—V. are required of candidates for preliminary honors in classics. Prospective candidates for such honors are advised to elect Course VI. in the Sophomore year.

VII. LATIN PROSE COMPOSITION. A course in continuation of Course VI., and involving original composition in Latin on historical, descriptive, and argumentative themes. *Wed., at 3.* 3 S. C. DR. CHASE.

Course VII. is elective for those who have taken Course VI.

VIII. LATIN PROSE OF THE EMPIRE. A course of readings of representative selections from the works of prose authors of the Imperial period not included in other courses. The readings cover considerable amounts, and are accompanied by illustrative lectures, and by some collateral, individual study. *Tu., Th., at 11.* 40 N. C. PROFESSOR MERRILL. (X.)

Course VIII. is elective for those who have taken at least two of Courses II.—V.

[IX. LATIN POETRY OF THE EMPIRE. A course similar to Course VIII., but covering poetry instead of prose. *Twice a week.* PROFESSOR MERRILL (*first half-year*), PROFESSOR NICOLSON (*second half-year*).]

Course IX. is elective for those who have taken at least two of Courses II.—V. It is omitted the present year.

X. ROMAN SATIRE,—from Ennius to Horace. The reading of the extant fragments of the satires of Ennius, Lucilius, and Varro, and of the most characteristic satires of Horace, with studies in the origin and development of satire among the Romans, and in its relation to similar work in Greek. *Mon., at 11, Fri., at 10.* 40 N. C. PROFESSOR MERRILL. (IV.)

Course X. is elective for those who have taken at least two of Courses II.—V.

XI.² ROMAN SATIRE. Readings from the satires of Petronius, Seneca, Persius, and Juvenal. *Tu., Th., at 11 (second half-year).*
2 S. C. PROFESSOR NICOLSON. (X.)

Course XI. is elective for those who have taken at least two of Courses II.-V.

XII.¹ LUCRETIIUS,—Books 1 and 3, and selections from the other books. *Tu., Th., at 12 (first half-year).* 6 S. C. PROFESSOR NICOLSON. (XI.)

Course XII. is elective for those who have taken at least two of Courses II.-V.

XIII.² CATULLUS. *Tu., Th., at 12 (second half-year).* 6 S. C. PROFESSOR MERRILL. (XI.)

Course XIII. is elective for those who have taken at least two of Courses II.-V.

[XIV.¹ OVID,—the Fasti, with especial attention to questions of Roman history and ritual. *Twice a week (first half-year).* PROFESSOR NICOLSON.]

Course XIV. is elective for those who have taken at least two of Courses II.-V. It is omitted the present year.

[XV.² TACITUS,—selections from the Annals I.-VI., designed to illustrate the author's conception of the character of Tiberius, and of the upbuilding of the principate. *Twice a week (second half-year).* PROFESSOR MERRILL.]

Course XV. is elective for those who have taken at least two of Courses II.-V. It is omitted the present year.

[XVI.¹ LATIN EPIGRAPHY. An introductory course, with especial attention to inscriptions of historical interest. The course is prefaced by a brief survey of the general classes and formal characteristics of Latin inscriptions, based upon Egbert's Introduction. *Twice a week (first half-year).* PROFESSOR MERRILL.]

Course XVI. is elective for those who have taken at least two of Courses II.-V. It is omitted the present year.

[XVII.² LATIN PALÆOGRAPHY AND CRITICISM. A course of lectures upon the rudiments of Latin palæography, accompanied by practical exercises and demonstrations, with the use of facsimiles, and followed by a few lectures on the general principles of text criticism, with the study of simple and typical problems in that field. *Twice a week (second half-year).* PROFESSOR MERRILL.]

Course XVII. is elective for those who have taken at least two of Courses II.-V. It is omitted the present year.

XVIII. ROMAN TOPOGRAPHY AND PUBLIC BUILDINGS. A course of lectures, illustrated by photographs, engravings, and lantern-slides, and requiring some collateral study of original and of secondary authorities, and the careful preparation of note-books. *Mon., Wed., at 12.* 40 N. C. PROFESSOR MERRILL. (V.)

Course XVIII. is elective for those who have taken Course I.

[XIX. ROMAN PRIVATE LIFE AND SOCIAL INSTITUTIONS. A course of lectures, illustrated by photographs, engravings, and lantern-slides, and requiring some collateral study of original and of secondary authorities, and the careful preparation of note-books. *Twice a week.* PROFESSOR MERRILL.]

Course XIX. is elective for those who have taken Course I. It is omitted the present year.

*XX. SELECTED CHAPTERS OF ROMAN ARCHEOLOGY. A course of lectures, reading, and practical exercises, partly in museums. The topics discussed include an outline of the general characteristics and of certain important schools of classical art; Roman numismatics; the interpretation of (chiefly historical) Latin inscriptions; and such other subjects as may appear fitted to the especial needs of the students who are admitted to the course. *Mon., at 10, Fri., at 11.* 40 N. C. PROFESSORS MERRILL AND PATON.

Course XX. is elective, with the permission of the instructors, for Juniors who have taken, or are taking, Course XVI.

For the most successful prosecution of even the earlier courses in Latin, ability to read German prose on philological subjects is decidedly advantageous, and for Courses XVI.-XX. it is necessary. Students, therefore, who look forward to the study of Latin beyond the more elementary courses, and who have on admission to college no acquaintance with German, should devote especial attention to that subject in the Freshman year.

General Linguistics.

A course of lectures on the general principles of the science of language, intended not merely for students of Latin and Greek, but for all students who are interested in the problems concerned with the growth, development and relationship of languages in general. The

discussion covers such topics as the laws of relationship in language; the causes of change in language; the principles governing sound-change, with an outline of the general principles of phonetics; the influence of analogy in producing changes in language; the direct influence of languages upon one another; families and groups of languages; methods of the comparative study of languages; the Indo-European group of languages; the home and character of the original Indo-European language; the history of the study of comparative philology, its importance, and its historical and ethnological results.
Wed., at 8. 5 S. C. DR. CHASE. (I.)

This course is elective for Juniors.

GREEK.

PROFESSOR VAN BENSCHOTEN; ASSOCIATE PROFESSOR PATON.

I. LYSIAS,—Select Orations; PLATO,—Apology and Crito (*first half-year*). HOMER,—Odyssey (*second half-year*). Exercises in Greek composition and in translation at sight. SECTION 1, *Tu., Wed., Th., Fri., at 9*; SECTION 2, *Tu., Wed., Th., Fri., at 10.*
 2 S. C. PROFESSOR PATON. (III.)

Course I. is required of Classical Freshmen.

II. DEMOSTHENES,—Olynthiacs. PLUTARCH,—Life of Demosthenes. Collateral reading in Greek history (*first half-year*). SOPHOCLES,—Oedipus Tyrannus. Lectures and collateral readings on the Greek theatre and on the Oedipus legend in the Attic dramatists (*second half-year*). *Tu., Th., at 12.* 2 S. C. PROFESSOR PATON. (XI.)

Course II. is elective for those who have taken Course I. It is required of candidates for preliminary honors in classics.

III. THE LIFE AND LANGUAGE OF THE GREEKS. *Tu., at 11.*
 3 S. C. PROFESSOR VAN BENSCHOTEN. (X.)

Course III. is elective for those who take, or have taken, Course II. It is required of candidates for preliminary honors in classics.

[IV. GREEK COMEDY. The Frogs and the Acharnians of Aristophanes (*first half-year*). GREEK TRAGEDY. Aeschylus, Sophocles, Euripides (*second half-year*). One meeting each week is devoted to special studies in the Greek language and literature. *Three times a week.* PROFESSOR VAN BENSCHOTEN.]

Course IV. is elective for those who have taken Courses I. and II., and who take, or have taken, Course III.

V. GREEK COMEDY. The Clouds of Aristophanes (*first half-year*). Xenophon; Greek Drama (*second half-year*). One meeting each week is devoted to special studies in the Greek language and literature. *Mon., Fri., at 8, Th., at 10.* PROFESSOR VAN BENSCHOTEN. (I.)

Course V. is elective for those who have taken Courses I. and II., and who take, or have taken, Course III.

Courses IV. and V. are given in alternate years, Course IV. being omitted the present year.

VI. BIBLICAL GREEK. The text used is Scrivener's New Testament in Greek, with the revisers' readings. Collateral studies; texts and translations. *Tu., Th., at 9.* PROFESSOR VAN BENSCHOTEN. (VIII.)

Course VI. is elective for those who have taken Course II. It is given in alternate years.

VII. PINDAR; BACCHYLIDES; Lyric Poetry (*first half-year*). LUCIAN; PAUSANIAS; Neo-Hellenic,—with collateral work on the geography and topography of Greece (*second half-year*). One meeting each week is devoted to special advanced studies in the Greek language and literature. *Mon., Wed., at 11, Fri., at 9.* S. C. PROFESSOR VAN BENSCHOTEN. (IV.)

Course VII. is elective for those who have taken either Course IV. or Course V.

VIII. SEMINARY FOR THE STUDY OF GREEK ARCHÆOLOGY. *Fri., at 12.* PROFESSOR VAN BENSCHOTEN. (V.)

Course VIII. is elective for those who have taken Courses I. and II., and who take, or have taken, Course III.

[IX. GREEK LITERATURE. Lectures and collateral reading. *Once a week.* PROFESSOR VAN BENSCHOTEN.]

Course IX. is elective for those who have taken Courses I. and II., and who take, or have taken, Course III.

Courses VIII. and IX. are given in alternate years, Course IX. being omitted the present year.

[X. GREEK ANTIQUITIES. The home life of the Greeks; the house, food, dress, family, and social customs (*first half-year*). The public life of the Greeks; education, trade, government, military and naval

organization, religion and worship (*second half-year*). Lectures, collateral reading, and brief reports upon special topics. The third hour is used for illustration by means of lantern-slides. *Twice a week, and a third hour at the pleasure of the instructor, counting as two hours a week.* PROFESSOR PATON.]

Course X. is elective for those who have taken Course II. It is omitted the present year.

For Greek history, see Course VII. in history.

It is very desirable that those who elect the advanced courses in Greek should be able to read German prose on philological subjects.

GERMAN.

ASSOCIATE PROFESSOR FAUST; MR. OSTRANDER.

I. ELEMENTARY GERMAN. Harris's German Lessons, Hewett's German Reader. Heyse,—L'Arrabiata; Storm,—Immensee; Wil-denbruch,—Das edle Blut; Zschokke,—Das Abenteuer der Neujahrs-nacht, Der zerbrochene Krug; Gerstäcker,—Germelshausen. Vos's Materials for German Conversation. Thomas's Practical German Grammar. SECTION 1, *Mon., Wed., Fri., at 8.* 12 S. C. PRO-FESSOR FAUST. SECTION 2, *Mon., Wed., Fri., at 11.* 6 S. C. MR. OSTRANDER. (I.)

For rules in regard to the election of I. German, see page 44.

II. ADVANCED GERMAN. READINGS. Classical: Schiller,—Wil-helm Tell; Lessing,—Minna von Barnhelm; Goethe,—Hermann und Dorothea; Heine's Prose (Macmillan); Freytag,—Aus dem Staat Friedrichs des Grossen. At sight: Seidel,—Novellen; Chamisso,—Peter Schlemihl. PROSE COMPOSITION AND GRAMMAR. Harris's Selections for German Composition. Thomas's Practical German Grammar. *Mon., Wed., Fri., at 11.* 11 S. C. PROFESSOR FAUST.

Course II. is elective for those who have taken Course I. (IV.)

III. GERMAN CONVERSATION. For acquiring a vocabulary and readiness in the use of German, Meissner's Practical Lessons in German Conversation serves in part as guide. All class exercises are conducted in the German language. Readings and lectures in Ger-man are given on subjects relating to the geography (illustrated by physical and political maps) and *Kulturgeschichte* of Germany. *Tu., at 2.* 6 S. C. PROFESSOR FAUST.

Course III. is elective for those who have taken Courses I. and II., or their equivalent. It may be elected, with the permission of the instructor, together with Course II.

* IV. PROSE COMPOSITION AND ADVANCED GRAMMAR. Poll's Materials for German Prose Composition; Bauer-Duden,—Neuhochdeutsche Grammatik; theme-writing; discussion of methods of teaching German. *Tu., at 3.* 6 S. C. PROFESSOR FAUST. (XII.)

Course IV. is elective, with the permission of the instructor, for those who have taken Courses I.-III.

V.¹ GOETHE. Faust (edited by Thomas), Part I., and selected portions of Part II. A critical study of the text, and discussion of the questions concerning the beginnings and the composition of the drama. *Th., 7-9 p. m. (first half-year).* 11 S. C. PROFESSOR FAUST.

Course V. is elective for those who have taken Courses I. and II., and who take, or have taken, Course III.

[V. (a.)² GOETHE AND SCHILLER. Goethe,—Tasso; Schiller,—Wallenstein (three parts). Study of the lives and works of the two authors. *Twice a week (second half-year).* PROFESSOR FAUST.]

Course V. (a.) is elective for those who have taken Course V. It is omitted the present year.

[VI.¹ MIDDLE HIGH GERMAN. Paul's Mittelhochdeutsche Grammatik. Das Nibelungenlied (edited by Zarncke). Walther von der Vogelweide (edited by Paul). *Twice a week (first half-year).* PROFESSOR FAUST.]

Course VI. is elective for those who have taken Courses I.-III., or their equivalent. It is omitted the present year.

VII. THE HISTORY OF GERMAN LITERATURE. A course of lectures in German. Collateral readings in prose and poetry. *Tu., Th., at 9.* 6 S. C. PROFESSOR FAUST. (VIII.)

Course VII. is elective for those who have taken Courses I. and II., and who take, or have taken, Course III.

VIII. RAPID READINGS in Historical and Scientific German Prose. Brandt and Day,—German Scientific Reading; Freytag,—Doktor Luther. *Tu., at 3.* 2 S. C. MR. OSTRANDER. (XII.)

Course VIII. is elective for those who have taken Course I., or its equivalent.

*IX.² GERMAN SEMINARY. Subject: Advanced Middle High German. Wolframs Parzival. *Th.*, 7-9 p. m. (*second half-year*), counting as one hour a week. 10 S. C.

Course IX. is elective, with the permission of the instructor, for those who have taken Courses I.-VII. It is designed for graduate students and candidates for special honors in German.

Graduate Instruction.

Courses V., VI., and VII., with additional reading, may be taken by graduate students. Course IX. is designed for them. Those desiring advanced work in German literature, or an introduction to the study of German philology, are assigned courses of private reading.

ROMANCE LANGUAGES.

PROFESSOR KUHN; MR. OSTRANDER.

I. ELEMENTARY FRENCH. Whitney's Practical French Grammar, Part I. Kuhns's French Reading for Beginners. Victor Hugo, — Quatrevingt-treize; Erckmann-Chatrian, — Madame Thérèse; About, — Le Roi des Montagnes. Part of these books are read at sight. Opportunity is given for personal drill in pronunciation. SECTION 1, *Mon., Wed., Fri.*, at 8; SECTION 2, *Mon., Wed., Fri.*, at 3. 2 S. C. MR. OSTRANDER. (I.)

For rules in regard to the election of I. French, see page 44.

II. ADVANCED FRENCH. Whitney's Grammar, Part II., and Grandgent's French Composition. This course has for its main object the study of advanced grammar and composition, in connection with the reading of a large amount of French. During the second half-year more attention is paid to the literature. *Tu., Th.*, at 8. 12 S. C. PROFESSOR KUHN. (VII.)

Course II. is elective for those who have taken Course I.

*III. FRENCH CONVERSATION. Bercy, — Le Français Pratique. During the year informal lectures on travel in Europe are given in French. Some of the lectures are illustrated by lantern slides. *Fri.*, at 12. 6 S. C. PROFESSOR KUHN. (V.)

Course III. is elective, with the permission of the instructor, for those who have taken Course I.

IV. FRENCH LITERATURE. Selections from the works of the more important authors of the seventeenth, eighteenth, and nineteenth centuries. There is at each recitation translation of English into French. Frequent lectures are given on the general state of literature in France during the period studied. In addition, each member of the class must take a somewhat extended course of reading, must prepare for the class an abstract of what he has read, and must also write a short essay in French on the life of a selected author. *Tu., Th., at 10.* 6 S. C. PROFESSOR KUHN. (IX.)

Course IV. is elective for those who have taken Courses I.-III.

V. OLD FRENCH. Clédat,—Morceaux Choisis des Auteurs Français du Moyen Age. Lectures and exercises in Old French etymology, based on La Vie de St. Alexis. *Wed., at 8.* PROFESSOR KUHN. (I.)

Course V. is elective for those who have taken Courses I.-IV.

[V. (a.) SEMINARY COURSE, for those who expect to teach French. *Once a week.* PROFESSOR KUHN.]

Course V. (a.) is elective for those who have taken Courses I.-IV. It is omitted the present year.

VI. ELEMENTARY ITALIAN. Italian Principia, I. De Amicis, —Cuore; Manzoni,—I Promessi Sposi; Pellico,—Le Mie Prigioni. In addition to the regular work by the class in translating modern prose, the instructor will translate and interpret to the class the Inferno and the Purgatorio of Dante, the last half-hour of each recitation being devoted to this exercise. As a preparation for this part of the work, the class is required to read Rossetti's Shadow of Dante. *Mon., Wed., at 9.* 3 S. C. PROFESSOR KUHN. (II.)

Course VI. is elective for Sophomores who have taken I. French.

[VII. ADVANCED ITALIAN. Dante, Petrarch, Tasso, Ariosto. Lectures on the history of Italian literature. *Twice a week.* PROFESSOR KUHN.]

Course VII. is elective for those who take Course VI. It is omitted the present year.

Graduate Instruction.

Course V. is designed for graduate students, but is elective for undergraduates.

Of the courses in French and German, Classical Freshmen are required to pursue either I. French or I. German, but are allowed their option between the two. Students in the Latin-Scientific Course

are examined at entrance in the equivalent of either I. French or I. German, as they may elect, and in the Freshman year are required to pursue one course in French or German. They may either continue the study of the language in which their entrance examination was taken, or begin the study of the other language, as they may elect. Students in the Scientific Course are required to complete the equivalent of Courses I. and II. in French and I. and II. in German. Such of these courses as they have not pursued and passed in before entering college, they must take as soon as possible after entering.

ENGLISH LITERATURE

PROFESSOR WINCHESTER.

I. GENERAL INTRODUCTION TO ENGLISH LITERATURE. 1. An outline of the history of the literature. Stopford Brooke's *English Literature*, with lectures. *First half-year.* 2. Class-room reading and discussion of literary masterpieces, illustrative of different varieties and periods of English literature. The works selected for the present year are:—Shakspere's *Hamlet*; the minor poems of Milton. *Second half-year.* 3. A brief course of collateral reading, with written recitations and essays upon subjects drawn from the reading. Members of the class may choose any one of the courses in Winchester's *Five Short Courses of Reading in English Literature*. These courses consist of selections from the following authors:—

- (1) 1559-1674. Marlowe, Green, Shakspere, Bacon, Milton.
- (2) 1660-1745. Dryden, Addison, Steele, Swift; with Johnson's *Lives of Dryden, Swift, and Pope*, and Thackeray's *Lectures on the English Humourists*.
- (3) 1745-1789. Gray, Goldsmith, Johnson, Burke, Cowper, Burns; with Leslie Stephen's *Life of Johnson*, Dobson's *Life of Goldsmith*, Morley's *Life of Burke*.
- (4) 1789-1832. Wordsworth, Coleridge, De Quincey, Lamb, Byron, Shelley, Keats.
- (5) 1832-1880. Carlyle, Ruskin, Matthew Arnold, Browning, Tennyson.

This work will be tested by a series of written recitations and theses during the year. *Mon., Wed., at 12.* 11 S. C. (V.)

Course I. is elective for Sophomores.

[II. ENGLISH LITERATURE OF THE VICTORIAN PERIOD. Carlyle, Ruskin, Arnold, Tennyson, Browning. *Twice a week.*]

Course II. is elective for those who have taken Course I.

III. ENGLISH POETRY, 1789-1832. Burns, Wordsworth, Coleridge, Scott, Byron, Shelley, Keats. *Mon., Wed., Fri., at 9. 11 S. C.* (II.)

Course III. is elective for those who have taken Course I. Courses II. and III. are given in alternate years, Course II. being omitted the present year.

[IV. LITERATURE OF THE PERIOD OF QUEEN ANNE. Defoe, Steele, Addison, Swift, Bolingbroke, Pope. *Twice a week.*]

Course IV. is elective, with some restrictions, for those who have taken Course I., either Course II. or Course III., and Course VI.

V. ESSAYISTS AND REVIEWERS OF THE EARLY NINETEENTH CENTURY. Jeffrey, Hazlitt, De Quincey, Lamb, Wilson, Hunt. *Mon., Wed., at 11. 56 N. C.* (IV.)

Course V. is elective, with some restrictions, for those who have taken Course I., either Course II. or Course III., and Course VI. Courses IV. and V. are given in alternate years, Course IV. being omitted the present year.

VI. ELEMENTS OF LITERARY CRITICISM. Discussion of the essential elements and the various forms of literature, with practical exercises in the application of critical principles. Winchester's Principles of Literary Criticism is used as a text-book. *Fri., at 8. L. CH. 2.* (I.)

Course VI. is elective for those who have taken Course I.

VII. DEBATE. Weekly practical exercises. Two members of the class are appointed to conduct the debate at each exercise. They must prepare written briefs of their argument, which are revised and corrected by the instructor, and are then publicly posted four days before the debate. *Mon., at 10. L. CH. 2.*

Course VII. is elective for Seniors, and those who elect it are excused from half the rhetorical work required in Course VIII.

VIII. ENGLISH COMPOSITION. The rhetorical exercises of the Senior class are assigned to this department. Every Senior (unless excused from half this requirement by the provisions of Course VII.), must write either four essays or two orations. All written work receives the personal criticism of the instructor, and the orations are also rehearsed before the instructor in elocution.

Graduate Instruction.

Special provision for graduate instruction is made to meet the wants of individual students.

ENGLISH LANGUAGE

PROFESSOR MEAD.

I. RHETORIC. Scott and Denney's Paragraph Writing, Mead's Composition and Rhetoric. As a study in modern prose style, the class read and discuss in the class-room Lewis's Specimens of the Forms of Discourse. For supplementary reading, Wendell's English Composition is recommended. The members of the class are required to write numerous exercises illustrating and applying the principles laid down in the text-books. These exercises are discussed and criticised in the class-room, and also privately at regular times appointed by the instructor. SECTION I, *Mon.*, at 8; SECTION 2, *Mon.*, at 9; SECTION 3, *Tu.*, at 8 (*counting as two exercises a week*). 6 S. C. (VII.)

Course I. is required of Freshmen.

II. ENGLISH COMPOSITION. A. Sophomores are required to write six essays during the year on subjects approved by the instructor.

B. Juniors write on subjects of their own selection, and choose one of the two following courses: Course I., consisting of five general and two departmental essays; Course II., consisting of two general and four departmental essays. The departmental essays must be written on subjects related to some department of college work and approved by the instructor in English.

Appointments for personal criticism are made for Sophomores and Juniors.

III.¹ OLD ENGLISH. An introductory course, based upon Smith's Old English Reader, with exercises and easy readings. Translation at sight is a frequent class exercise from the beginning. Elementary studies of the history of the English language are based upon Skeat's Primer of English Etymology. This course is of fundamental importance for the study of the English language and the earlier English literature. *Wed., Fri.*, at 8 (*first half-year*). 6 S. C. (I.)

Course III. is elective for Sophomores.

IV.² OLD ENGLISH. Bright's Anglo-Saxon Reader, with additional readings in prose or poetry, as the class may elect. In this course reading at sight is especially encouraged. *Wed., Fri., at 8 (second half-year).* 6 S. C. (I.)

Course IV. is elective for those who have taken Course III.

V. OLD ENGLISH LITERATURE. Brooke's History of English Literature from the Beginning to the Norman Conquest, with lectures on the history of Old English literature before 1100 A. D., and some account of contemporary Germanic literature. One aim of this course is to give to students whose work lies mainly in modern literature a survey of Old English prose and poetry before the Norman Conquest, and to describe the life of which the literature is a reflection. Typical selections from Old English poems are read in translation. *Th., at 11.* 6 S. C. (X.)

Course V. is elective for Sophomores.

*VI. MIDDLE ENGLISH. A course in Chaucer and typical early English romances, with an introductory course in Morris and Skeat's Specimens of Early English. Supplementary reading is arranged for each member of the class. *Wed., Fri., at 3.* 26 N. C. (VI.)

Course VI. is elective for Juniors, with the permission of the instructor.

VII. MIDDLE ENGLISH LITERATURE. A course of lectures on English literature from the Norman Conquest to the Revival of Learning. The aim of this course is to point out the chief literary types in the early literature of England, and to indicate the materials that have been used again in modern English literature. Especial attention is given to the Arthurian Romances and to Chaucer. *Mon., at 3.* 5 S. C. (VI.)

Course VII. is elective for Juniors.

VIII. BEOWULF. An advanced course in Old English poetry, with supplementary linguistic studies. *Th., at 12 (counting as twice a week).* 26 N. C.

Course VIII. is elective for those who have taken Course IV.

Graduate Instruction.

Special graduate courses may be arranged on application.

ELOCUTION.

PROFESSOR HIBBARD.

I. DECLAMATION. Freshmen are required to deliver declamations, mostly of their own selection, fortnightly.

Sophomores are required to deliver nine declamations during the year.

II. THEORY OF ELOCUTION. 1. Mechanics of speech. Theories of vocal expression. Text-book, Russell's Vocal Culture. *First term.*

2. Gesture. Theories of Austin and Delsarte. Text-book, Bacon's Manual of Gesture. *Second term.*

3. Study of Style. Lectures on expression, extempore speech and sources of power. *Third term. Tu., Th., at 3.* L. CH. (XII.)

Course II. is elective for Juniors.

*III. FORENSIC AND DRAMATIC EXPRESSION. The study and practice of addresses, orations, and specimens of dramatic literature, as a preparation for public speaking. *Th., at 12.* L. CH. (XI.)

Course III. is elective, with the permission of the instructor, for those who have taken Course II.

HISTORY.

ASSOCIATE PROFESSOR DUTCHER; ASSOCIATE PROFESSOR PATON.

I. HISTORY OF ENGLAND, from the earliest times to the present day. Gardiner's Student's History of England, Adams and Stephens's Select Documents of English History. Lectures and assigned work. *Tu., Th., at 3.* 12 S. C. PROFESSOR DUTCHER. (XII.)

Course I. is elective for Sophomores. Those intending to elect the later courses in history should elect Course I. in the Sophomore year.

NOTE.—In 1901-1902 and 1902-1903, Course I. in general history, as announced in the program of the department of history for 1900-1901, will be accepted for admission to Courses II.-VI.

II. AMERICAN COLONIAL HISTORY, 1492-1783. Thwaites's The Colonies, Hart's Formation of the Union, MacDonald's Select Charters. Lectures and assigned work. *Tu., Th., at 8.* L. CH. 2. PROFESSOR DUTCHER. (VII.)

Course II. is elective for those who have taken Course I.

[III. UNITED STATES HISTORY, 1783-1865. Hart's Formation of the Union, Wilson's Division and Reunion, MacDonald's Select Documents of United States History. Lectures and assigned work. *Three times a week.* PROFESSOR DUTCHER.]

Course III. is elective for those who have taken Course I. Courses II. and III. are given in alternate years, Course III. being omitted the present year.

[IV. EUROPEAN HISTORY, 300-1600. Lectures and assigned work. *Three times a week.* PROFESSOR DUTCHER.]

Course IV. is elective for those who have taken Course I.

V. EUROPEAN HISTORY, 1600-1890. Stephens's Syllabus of Modern European History, Periods of European History, edited by Hassall, vols. 5-8. Lectures and assigned work. *Mon., Wed., Fri., at 9.* L. CH. 2. PROFESSOR DUTCHER. (II.)

Course V. is elective for those who have taken Course I. Courses IV. and V. are given in alternate years, Course IV. being omitted the present year.

*VI.² HISTORICAL SEMINARY. The historical study of the growth of institutions and constitutions. *Two hours once a week, (second half-year), the hours to be determined hereafter.* PROFESSOR DUTCHER.

Course VI. is elective, with the permission of the instructor, for Seniors who have taken Course I., either Course II. or Course III., and either Course IV. or Course V.

VII.² GREEK HISTORY. Especial attention is given to the course of Greek civilization, and to the more important forms of government in the Greek states. *Three times a week (second half-year), the hours to be determined hereafter.* PROFESSOR PATON.

Course VII. is elective for Juniors.

ECONOMICS AND SOCIAL SCIENCE.

PROFESSOR FISHER.

I. PRINCIPLES OF ECONOMIC SCIENCE. General introductory course. Recitations and discussions. *Mon., Wed., at 11.* L. C. (IV.)

Course I. is required in the Junior or Senior year; with the permission of the instructor, it may be taken by Sophomores.

[II. ADVANCED ECONOMICS. This course includes a brief historical view, on the basis of Ingram's History of Political Economy, and critical studies of the theories of value and distribution. *Twice a week.*]

Course II. is elective for those who have taken Course I. It is omitted the present year.

III. PUBLIC FINANCE. The economy of the state:—revenues from taxation, from government industries, and from other sources; the contraction, administration, conversion, and liquidation of public debts; government expenditures, their social and industrial effects. The work of this course is based on Adams's Science of Finance; a number of lectures are also given, and references are made to standard authorities. *Mon., Wed., at 12. L. CH. 2. (V.)*

Course III. is elective for those who have taken Course I. Courses II. and III. are given in alternate years, Course II. being omitted the present year.

IV. 1. MONEY AND BANKING. A course on the general principles and history of monetary and banking institutions, on the social and industrial aspects of the present monetary situation, and on the various schemes for reform. 2. THE TRUST PROBLEM. A discussion of industrial combinations, their causes, methods, and effects, and the means of social control. *Tu., Th., at 11. L. CH. 2. (X.)*

Course IV. is elective for those who have taken Course I.

[V. THE GENERAL LABOR PROBLEM. A course of lectures on the nature, causes, and justification of the present social discontent, and on such suggested remedies as moral elevation, charity, education, provident institutions, labor organizations, strikes, conciliation and arbitration, labor legislation, improved wage systems, profit-sharing, coöperation, nationalization of the land, socialism, communism, anarchism. *Twice a week.*]

Course V. is elective for those who have taken Course I. Courses IV. and V. are given in alternate years, Course V. being omitted the present year.

[VI. SOCIOLOGY. A discussion of the fundamental principles of social organization, and the conditions and forms of social progress. *Twice a week.*]

Course VI. is elective for those who take, or have taken, Course I. It is omitted the present year.

VII. SOCIAL SCIENCE. An examination of certain concrete social problems of the present:—pauperism and charity; the defective and criminal classes. The class-room work is supplemented by visits to several of the charitable, penal, and reformatory institutions in and about Middletown. *Tu., Th., at 9.* L. CH. 2. (VIII.)

Course VII. is elective for those who take, or have taken, Course I. Courses VI. and VII. are given in alternate years, Course VI. being omitted the present year.

* VIII. ECONOMIC SEMINARY. Each member of the seminary takes for private individual investigation, under the direction of the instructor, some problem in economics, finance, statistics, or social science, and week by week reports in class on progress made and obstacles met. At the close of the year the work is brought together in a final report or thesis. *Mon., 7-9 p. m.* 10 O. H.

Course VIII. is elective, with the permission of the instructor, for Seniors who, having received first or second grade in Course I., take any three of the Courses III.-VII.

It will be noted that in each of the college classes certain courses cannot be taken at all except by such students as take Course I. in the Sophomore year. Hence a student who is to graduate in the odd-numbered years, and who wishes to take Courses III. and IV., must qualify himself to take them in his Junior year by taking Course I. in his Sophomore year; and similarly a student in an even-numbered class can take Courses II. and V. only by taking Course I. in his Sophomore year. It should be noted, however, that Course I. may be taken in the Sophomore year only with the permission of the instructor.

Graduate Instruction.

Course VIII. is intended primarily for graduate students, but is open also to such undergraduates of the Senior year as are making special studies in the department. Courses II.-VII., while intended primarily for undergraduates, may also be taken with advantage by graduates who have studied only the principles of economic science.

PHILOSOPHY.

PROFESSOR ARMSTRONG; ASSOCIATE PROFESSOR DODGE.

I.² LOGIC. Jevons-Hill's Elements of Logic. An elementary course in the fundamental forms of reasoned thinking, deductive and inductive alike. The study of the text-book is illustrated by numerous examples in logical praxis. SECTION 1, *Tu., Th., at 10*; SECTION 2, *Tu., Th., at 3 (second half-year)*. 11 S. C. PROFESSOR DODGE. (IX.)

Course I. is required of Sophomores.

II.¹ PSYCHOLOGY. Sully's Outlines of Psychology, with references to other authorities. Lectures and discussions are used to supplement the text-book. These are introduced especially in explanation of the more recent psychological investigations and of positions still under debate. SECTION 1, *Mon., Wed., Fri., at 10*; SECTION 2, *Mon., Wed., at 10, Th., at 3 (first half-year)*. 11 S. C. PROFESSOR ARMSTRONG. (III.)

Course II. is required of Juniors.

III. PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY. Ladd's Outlines of Physiological Psychology. The course begins with a discussion of the physical basis of mind, but more than half of the time is devoted to the study of the chief experimental methods and results. Lectures and experimental demonstrations supplement the study of the text-book. SECTION 1, *Mon., at 3, Wed., at 2*; SECTION 2, *Mon., Wed., at 3*. 7 S. C. PROFESSOR DODGE. (VI.)

Course III. is elective for Juniors.

IV.¹ ADVANCED LOGIC. Hibben's Inductive Logic. The course opens with several lectures on the history of logic. Special attention is given to the discussion of the principles of induction and scientific method and to the criticism of concrete cases of scientific inference. *Tu., Th., at 10 (first half-year)*. 11 S. C. PROFESSOR DODGE. (IX.)

Course IV. is elective for Juniors.

V.¹ INTRODUCTION TO PHILOSOPHY. Lectures and recitations, with references to the Introductions of Stuckenberg, Ladd, and Külpe. *Fri., at 11 (first half-year)*. 3 S. C. PROFESSOR ARMSTRONG. (IV.)

Course V. may not be elected by itself. It must be combined either with Course IV. or with Course VI.

VI.² ANCIENT AND MEDIÆVAL PHILOSOPHY. Zeller's Outlines of Greek Philosophy, with references to Schwegler, Zeller's larger work, and other authorities; lectures and discussions. *Tu., Th., at 10 (second half-year)*. 11 S. C. PROFESSOR ARMSTRONG. (IX.)

Course VI. is elective, under ordinary circumstances, for those who have taken either Course IV. or Course V.

VII.¹ MODERN PHILOSOPHY FROM THE RENAISSANCE TO KANT. Falckenberg's History of Modern Philosophy; lectures, recitations, discussions, and references to other standard histories of philosophy. *Tu., Th., at 11 (first half-year)*. 11 S. C. PROFESSOR ARMSTRONG. (X.)

Course VII. is elective, under ordinary circumstances, for those who have taken Course VI.

VIII.² MODERN PHILOSOPHY FROM KANT TO THE PRESENT TIME. Falckenberg's History of Modern Philosophy; lectures, recitations, discussions, and references to other authorities. *Tu., Th., at 11 (second half-year)*. 11 S. C. PROFESSOR ARMSTRONG. (X.)

Course VIII. is elective for those who have taken Course VII.

*IX. ADVANCED PSYCHOLOGY. The object of this course is the discussion of important selected topics. The views of leading thinkers are presented in lectures and in formal reports by members of the class. The topics for the current year are taken from the psychology of the emotions and the will. *Th., at 2*. 6 S. C. PROFESSOR DODGE.

Course IX. is elective for those who have received not lower than grade three in Course II.

*X. LABORATORY COURSE IN PSYCHOLOGY. Experimental study of special problems. The principal subject of investigation for the present year is the visual perception of motion. *Fri., at 11*. 78 Lawn Ave. PROFESSOR DODGE.

Course X. is elective, with the permission of the instructor, for those who have taken Courses II. and III.

XI.¹ READINGS IN MODERN PHILOSOPHY. In this course, representative works of leading thinkers of the first half of the modern period are read and discussed. Special attention is given to selections from the works of Descartes, Locke, Berkeley, and Hume. *Mon., Wed., at 11 (first half-year)*. 7 S. C. PROFESSOR DODGE. (IV.)

Course XI. is elective for those who are taking Course VII.

XII.² METAPHYSICS. Selections from the works of Kant and Lotze. Class readings and discussions. Topical reports and theses may also be required. *Mon., Wed., Fri., at 11 (second half-year).*

7 S. C. PROFESSOR ARMSTRONG. (IV.)

Course XII. is elective for those who are taking Course VIII.

Graduate Instruction.

[XIII. GRADUATE SEMINARY. The philosophy of Kant, as given in the Critiques of Pure Reason, Judgment, and Practical Reason. *Once a week.* PROFESSOR ARMSTRONG.]

Course XIII. is intended for graduate students, Courses IX.-XII. for advanced undergraduates and graduates. Special courses under the direction of the instructors of the department may be arranged in advanced experimental and theoretical psychology, historical philosophy, and metaphysics.

ETHICS AND RELIGION.

PRESIDENT RAYMOND; PROFESSOR RICE.

I.¹ ETHICS. A course of lectures on theoretical and practical ethics, supplemented by theses and collateral reading. Martineau's Types of Ethical Theory is used for this collateral work. *Wed., Fri., at 10 (first half-year).* L. CH. PRESIDENT RAYMOND. (III.)

Course I. is required of Seniors.

II.² EVIDENCES OF CHRISTIANITY. Lectures, with collateral readings on all the important topics. *Wed., Fri., at 10 (second half-year).*

L. CH. PRESIDENT RAYMOND. (III.)

Course II. is required of Seniors.

[III.² THEISM. Instruction is given by lectures, supplemented by collateral readings and class discussions. The purpose of the course is to discover essential religious phenomena, to test the various historic theories offered in explanation of these phenomena, and to find a philosophic basis for faith. *Twice a week (second half-year).* PRESIDENT RAYMOND.]

Course III. is elective for those who have taken Courses I., II., V.-VII. in philosophy. It is omitted the present year.

IV.² RELATIONS OF SCIENCE AND RELIGION. A course of lectures on the history of important advances in scientific thought and their bearing upon theistic and Christian belief. The heliocentric

astronomy, the antiquity of the earth and of man, the theory of evolution, and the correlation of physical and vital forces, are among the topics discussed. *Tu., Th., at 8 (second half-year).* 11 S. C. PROFESSOR RICE. (VII.)

Course IV. is elective for Juniors. It is given in alternate years.

MATHEMATICS AND ASTRONOMY.

PROFESSOR J. M. VAN VLECK; PROFESSOR E. B. VAN VLECK; MR. LUNN.

I. SOLID GEOMETRY. Phillips and Fisher's Elements of Geometry. *First third of the year.*

PLANE TRIGONOMETRY. *Second third of the year.*

ANALYTICAL GEOMETRY. *Last third of the year.* SECTION 1, *Mon., Tu., Th., Fri., at 9.* PROFESSOR E. B. VAN VLECK. SECTION 2, *Mon., Tu., Th., Fri., at 10.* SECTION 3, *Mon., Tu., Th., Fri., at 12.* MR. LUNN. 12 S. C. (V.)

Course I. is required of Classical Freshmen, and of Latin-Scientific and Scientific Freshmen who did not pass in the advanced requirements in mathematics on admission to college.

II. ALGEBRA. Advanced course. *Mon., Wed., at 11.* 26 O. H. MR. LUNN. (IV.)

Course II. is elective for those who have taken Course I.

[III. TRIGONOMETRY. Advanced course, with applications to problems in surveying and astronomy. *Twice a week.*]

Course III. is elective for those who have taken Course I. It is omitted the present year.

IV. ANALYTICAL GEOMETRY. Advanced course. *Tu., Th., at 11.* 23 O. H. PROFESSOR E. B. VAN VLECK. (X.)

Course IV. is elective for those who have taken Course I.

V. DIFFERENTIAL AND INTEGRAL CALCULUS. Elementary course. *Tu., Th., Fri., at 12.* 26 O. H. PROFESSOR E. B. VAN VLECK.

Course V. is elective for those who have taken Course I. (XI.)

Courses II., IV., and V. are necessary for those who purpose to pursue advanced courses in pure mathematics; Course V. for those intending to pursue advanced courses in physics and other branches of applied mathematics.

VI. DIFFERENTIAL EQUATIONS, based on Murray's Treatise on Differential Equations. *Wed., Fri., at 8.* 26 O. H. PROFESSOR E. B. VAN VLECK. (I.)

Course VI. is elective for those who have taken Course V.

VII. ANALYTICAL GEOMETRY OF THREE DIMENSIONS, including especially a study of mathematical models. *Wed., Fri., at 12.* 23 O. H. PROFESSOR J. M. VAN VLECK. (V.)

Course VII. is elective for those who have taken Course IV., and who take, or have taken, Course V.

[VIII. PROJECTIVE GEOMETRY. *Twice a week.* PROFESSOR E. B. VAN VLECK.]

Course VIII. is elective for those who have taken either Course IV. or Course V. It is omitted the present year.

[IX. THEORY OF FUNCTIONS. Elementary course. *Twice a week.* PROFESSOR E. B. VAN VLECK.]

Course IX. is elective for those who have taken Course V. It is omitted the present year.

[X. ELLIPTIC FUNCTIONS. *Twice a week.* PROFESSOR J. M. VAN VLECK.]

Course X. is elective for those who have taken Course IX. It is omitted the present year.

XI. THE THEORY OF LINEAR DIFFERENTIAL EQUATIONS. *Mon., Wed., at 12.* 26 O. H. PROFESSOR E. B. VAN VLECK. (V.)

Course XI. is elective for those who have taken Course IX., and who take, or have taken, Course VI.

XII. THEORETICAL MECHANICS. *Tu., Th., at 12.* 23 O. H. PROFESSOR J. M. VAN VLECK. (XI.)

Course XII. is elective for those who have taken Course V.

XIII. DESCRIPTIVE ASTRONOMY. This course is designed to give a general knowledge of the fundamental facts and principles of astronomy, such a knowledge as may properly constitute a part of a general liberal education. *Tu., Th., at 9.* 26 O. H. PROFESSOR J. M. VAN VLECK. (VIII.)

Course XIII. is elective for those who have taken Course I., and is required of Scientific Sophomores.

XIV. SPHERICAL AND PRACTICAL ASTRONOMY, with practical exercises in the observatory. *Wed., Fri., at 9. 23 O. H.* MR. LUNN. (II.)

Course XIV. is elective for those who have taken Courses V. and XIII.

Graduate Instruction.

Courses VIII., IX., X., XI., XII., and XIV. are intended for graduate students as well as for advanced undergraduates.

PHYSICS.

PROFESSOR CRAWFORD; PROFESSOR ROSA.

I. ELEMENTARY PHYSICS. A general course, involving only elementary mathematics. Mechanics, Hydrostatics, Pneumatics. *Mon., Fri., at 10 (first half-year).* Heat, Sound, Light. *Mon., Wed., Fri., at 10 (second half-year).* PROFESSOR CRAWFORD. 25 O. H. (III.)

Course I. is required of Classical Sophomores, and of Latin-Scientific Sophomores and Scientific Freshmen who did not pass in physics on admission to college.

II. ELEMENTARY ELECTRICITY. This course is parallel to Course I., and supplementary to it. It includes also some experimental work in the laboratory. *Tu., Th., at 11. 25 O. H.* PROFESSOR ROSA. (X.)

Course II. is elective for those who take, or have taken, Course I.

III. PRACTICAL PHYSICS,—elementary experiments in mechanics, sound, heat, and light. This course is intended for those who purpose to teach physics, and also as an introductory course for those who expect to take further laboratory work. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (any two of these hours at the discretion of the student).* PROFESSOR CRAWFORD.

Course III. is elective for those who take, or have taken, Course I.

IV. ELECTRICAL MEASUREMENTS,—a course of experimental work in the electrical laboratory. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* PROFESSOR ROSA.

Course IV. is elective for those who have taken Course II.

Courses III. and IV. are parallel. With the consent of the instructors, a student may take a half-year of each.

V.¹ SOUND. A course of lectures, with collateral readings and experimental illustrations. *Mon., Wed., at 12 (first half-year).* 25 O. H. PROFESSOR CRAWFORD. (V.)

Course V. is elective for those who have taken Course I.

VI.¹ HEAT. A general elementary treatment of the subject, based on Tait's Heat. *Tu., Th., at 11 (first half-year).* 26 O. H. PROFESSOR CRAWFORD. (X.)

Course VI. is elective for those who have taken Course I.

VII.² THERMO-DYNAMICS. A continuation of Course VI., mainly conducted by lectures, of which an abstract is furnished. *Tu., Th., at 11 (second half-year).* 26 O. H. PROFESSOR CRAWFORD. (X.)

Course VII. is elective for those who have taken Course VI. in physics, and who take, or have taken, Course V. in mathematics.

VIII. APPLIED ELECTRICITY. The course consists of lectures and of lessons from a text-book. The first half-year is devoted to the theory and construction of dynamos and motors. In the second half-year the subjects studied include electric lighting, electric heating, storage batteries, electric railways, the telephone, telegraph, and other applications of electricity. *Mon., Wed., at 11.* 25 O. H. PROFESSOR ROSA. (IV.)

Course VIII. is elective for those who have taken Course II.

[IX. LIGHT. The first half-year is given mainly to geometrical optics, the second to the wave theory of light. *Twice a week.* PROFESSOR CRAWFORD.]

Course IX. is elective for those who have taken Course I. in physics and who take, or have taken, Course V. in mathematics. It is omitted the present year.

X. PRACTICAL PHYSICS. A continuation of Course III., consisting of exact measurements in mechanics, heat, sound, and light, and involving such work as the use of the reversion pendulum, the determination of coefficients of elasticity, the use of the air thermometer, the determination of wave-lengths of light, indices of refraction, etc. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* PROFESSOR CRAWFORD.

XI. ELECTRICAL TESTING. A continuation of Course IV., being experimental work. The study and testing of dynamos, motors, and other electrical apparatus and machinery forms a large part of the

work. Experiments with alternating currents are undertaken by those who take, or have taken, Course XIII. Opportunity is afforded for some shop-work and for practical experience in running a steam engine and dynamos. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* PROFESSOR ROSA.

Course XI. is elective for those who have taken Courses IV. and VIII.

[XII. MATHEMATICAL THEORY OF ELECTRICITY. This course is based upon J. J. Thomson's Mathematical Theory of Electricity and Magnetism. *Twice a week.* PROFESSOR ROSA.]

Course XII. is elective for those who have taken Course II. in physics and who take, or have taken, Course V. in mathematics. It is omitted the present year.

XIII. ALTERNATING CURRENTS. This course is based upon Jackson's Alternating Currents and Alternating Current Machinery. *Tu., Th., at 9. 25 O. H.* PROFESSOR ROSA. (VIII.)

Course XIII. is elective for those who take, or have taken, Course VIII. in physics and Course V. in mathematics.

XIV. ADVANCED ELECTRICAL TESTING. A continuation of Course XI. Opportunity is afforded for extended investigation of the problems connected with transformers and with alternating currents in general, and also for the experimental study of other important problems in electricity. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* PROFESSOR ROSA.

Course XIV. is elective for those who have taken Course XI. and either Course XII. or Course XIII.

XV. JOURNAL MEETING. The instructors of the department meet the graduate students and advanced undergraduates for the purpose of reporting and discussing articles from the current journals of general physics and electricity. *Wed., at 9. 25 O. H.* (II.)

[XVI. PHYSICAL SEMINARY. In this course special topics are chosen for more thorough and extended study than is possible in any of the other courses. In 1900-1901 the topics selected were from the field of applied physics, with special application to important industrial enterprises in mechanical, mining, and electrical engineering. *Once a week.* PROFESSORS CRAWFORD AND ROSA.]

Course XVI. is omitted the present year.

CHEMISTRY.

PROFESSOR ATWATER; PROFESSOR BRADLEY; ASSOCIATE PROFESSOR
BENEDICT.

I.¹ ELEMENTARY CHEMISTRY. This course is devoted to the elementary principles of the science. Each student performs a considerable number of experiments in the laboratory. *Tu., Wed., Th., at 10 (first half-year).* 3 J. H. PROFESSORS ATWATER AND BRADLEY. (IX.)

Course I. is required of Classical Sophomores, and of Latin-Scientific Sophomores and Scientific Freshmen who did not pass in chemistry on admission to college.

II.² ELEMENTARY CHEMISTRY. A continuation of Course I. A course of lectures on the general principles and some of the applications of chemistry. *Tu., Th., at 10 (second half-year).* 3 J. H. PROFESSOR ATWATER. (IX.)

Course II. is elective for those who have taken Course I.

III. QUALITATIVE ANALYSIS. A practical course in basic, acid, and blow-pipe analysis. Lectures are given on the chemical problems involved in the detection of the more common metals. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week).* CHEM. LAB. PROFESSOR BRADLEY.

Course III. is elective for those who have taken Courses I. and II.

IV. QUANTITATIVE ANALYSIS. A practical course in quantitative analysis and special laboratory exercises adapted to the wants of individual students. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week).* CHEM. LAB. PROFESSORS ATWATER AND BENEDICT.

Course IV. is elective for those who have taken Course II. and either Course III. or Course X.

V. ORGANIC CHEMISTRY. Lectures and recitations. The principles of organic chemistry as illustrated by the derivatives of methane and benzene. *Mon., Wed., Fri., at 8.* 3 J. H. PROFESSOR BRADLEY. (I.)

Course V. is elective for those who have taken either Course III. or Course X.

VI.¹ PHYSIOLOGICAL CHEMISTRY. Lectures on selected chapters of physiological chemistry. Especial attention is given to the chemistry of the animal body. *Tu., Th., at 11 (first half-year)*. 3 J. H. PROFESSOR ATWATER. (X.)

Course VI. is elective for those who have taken Course II. It is desirable that those who elect it should also elect Course V.

*VII. ORGANIC CHEMISTRY. A laboratory course devoted to the preparation of compounds of carbon. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week)*. CHEM. LAB. PROFESSOR BRADLEY.

Course VII. is elective, with the permission of the instructor, for those who have taken, or are taking, Course V.

*VIII. PHYSIOLOGICAL CHEMISTRY. A laboratory course in the preparation of compounds of interest in physiological chemistry. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week)*. CHEM. LAB. PROFESSOR ATWATER.

Course VIII. is elective, with the permission of the instructor, for those who have taken, or are taking, Courses V. and VI.

Courses VI. and VIII. are recommended to those who purpose to study medicine.

IX. THEORETICAL CHEMISTRY. A series of lectures upon the origin, development, and present status of the theory of the atom and molecule. *Fri., at 9 and at 12*. 3 J. H. PROFESSOR BRADLEY. (II.)

Course IX. is elective for those who have taken either Course III. or Course X.

*X. PRINCIPLES OF GENERAL AND ANALYTICAL CHEMISTRY. A practical course, involving a study of the properties and reactions of typical elements and compounds, based upon the periodic classification of the elements. Experimental demonstration of chemical laws and especially of the principles of analysis. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week)*. CHEM. LAB. PROFESSOR BENEDICT.

Course X. is elective, with the permission of the instructor, for those who have taken Course I.

*XI.² LIQUEFACTION OF GASES. Lectures, with experimental demonstrations, upon the history and theory of the liquefaction of gases, and upon some of the more important results of research at low temperatures. *Twice a week (second half-year), the hours to be determined hereafter*. 3 J. H. PROFESSOR BRADLEY.

Course XI. is elective, with the permission of the instructor, for those who have taken Course I.

*XII. CHEMICAL SEMINARY. A course of instruction and reading in biological chemistry. *Twice a week, the hours to be determined hereafter.* 3 J. H. PROFESSOR ATWATER.

Course XII. is elective, with the permission of the instructor, for those who have taken, or are taking, Courses V. and VI.

Graduate Instruction.

Course XII., although elective for undergraduates, is designed chiefly for graduates.

Laboratory courses of research in physical, physiological, and organic chemistry may be arranged.

GEOLOGY.

PROFESSOR RICE.

I. ELEMENTARY GEOLOGY. A course of lectures, chiefly on dynamical and structural geology. Dana's Revised Text-book of Geology is recommended for reference. *Tu., Th., at 12.* 8 J. H. (XI.)

Course I. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores.

II.¹ DYNAMICAL AND STRUCTURAL GEOLOGY. Advanced course. Recitations and lectures, with Le Conte's Elements of Geology, and Dana's Revised Text-book of Geology, as text-books. Special topics for study, with bibliographical references, are assigned to each member of the class. Lectures on these topics by the members of the class are discussed and criticised. Excursions are taken on Saturdays during the fall. The phenomena observed in an excursion are discussed at the next meeting of the class, one of the members of the class generally giving a report or lecture. *Mon., Wed., Fri., at 12 (first half-year), counting as four exercises a week.* 8 J. H. (V.)

Course II. is elective for those who have taken Course I. It is very desirable, however, that those who take this course should also have taken the course in physical geography.

III.² HISTORICAL GEOLOGY AND PALEONTOLOGY. Recitations and lectures, with same text-books as in Course II. Excursions are taken on Saturdays during the spring (required only of those who

take also Course II.). *Mon., Wed., Fri., at 12 (second half-year), counting as four exercises a week for those who take also Course II.* 8 J. H. (V.)

Course III. is elective for those who have taken Course I. It is very desirable, however, that those who take this course should also have taken the courses in zoölogy and botany.

IV.¹ PHYSICAL GEOGRAPHY. Recitations and lectures, with Tarr's Elementary Physical Geography as a text-book. *Mon., Fri., at 3 (first half-year).* 8 J. H. (VI.)

Course IV. (in connection with II. and III. Biology) is elective for Classical Sophomores, and is required of Latin-Scientific and Scientific Freshmen who did not pass in physical geography on admission to college.

[V.¹ MINERALOGY. Crystallography and optical mineralogy. Lectures and practical exercises. Dana's Text-book of Mineralogy is used for reference. *Three times a week (first half-year).*]

Course V. is elective for Classical and Latin-Scientific Juniors and Scientific Sophomores. It is omitted the present year.

[VI.² MINERALOGY. Determinative and descriptive mineralogy. Laboratory work in determinative mineralogy, lectures on descriptive mineralogy. Brush's Manual of Determinative Mineralogy, and Dana's Text-book of Mineralogy, are used for reference. *Three times a week (second half-year).*]

Course VI. is elective for those who have taken Course V. It is omitted the present year.

Graduate Instruction.

Courses II., III., V., and VI., although intended primarily for undergraduates, have often been taken by graduate students.

Additional work is provided for graduate students. This may include courses of reading in various branches of geological science, field work, or laboratory work.

BIOLOGY.

PROFESSOR CONN.

I. PHYSIOLOGY. The instruction is given chiefly by lectures, Martin's Human Body being used as a text-book. Enough anatomy is given to render the physiological discussions intelligible, and enough hygiene to guide to an intelligent care of the body. *Mon., Wed., at 8.* 8 J. H. (I.)

Course I. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores.

II.¹ GENERAL BIOLOGY. This course is devoted to the study of the simpler laws of life, and the relations of animals and plants. Practical study is made of the earthworm, the frog, and some common plants, which are used as illustrating the general structure and physiology of animals and plants. This course is designed as an introduction to the study of botany, zoölogy, and physiology. *Wed., 2-4 (first half-year); Mon., Wed., Fri., 2-4 (second half-year, until about March 15th), counting as one hour for the year.* 8 J. H. (VI.)

Course II. (in connection with IV. Geology and III. Biology) is elective for Classical Sophomores, and is required of Latin-Scientific and Scientific Freshmen.

III.² BOTANY. This course is a continuation of Course II., and consists of lectures and recitations, and of a large amount of practical work. It includes the study of physiological, morphological, structural, and microscopic botany. The course begins with the study of cryptogams, followed by a study of phenogams. The last four weeks are devoted to the analysis and description of flowers. Coulter's Plant Structures is used as a text-book. *Mon., Wed., Fri., 2-4 (after about March 15th), counting as one hour for the year.* 8 J. H. (VI.)

Course III. (in connection with IV. Geology and II. Biology) is elective for Classical Sophomores, and is required of Latin-Scientific and Scientific Freshmen who did not pass in botany on admission to college.

IV. ZOÖLOGY. Lectures and recitations. Typical examples, illustrating the various groups of the animal kingdom, are studied, attention being given rather to the general laws governing living beings than to the systematic classification of species. The course includes the embryology of the various forms studied, as well as their adult anatomy. The last term is devoted to the study of comparative anatomy and general zoölogical problems. *Mon., Wed., at 9.* 8 J. H. (II.)

Course IV. is elective for Classical Juniors and for Latin-Scientific and Scientific Sophomores.

* V. PRACTICAL BIOLOGY. The design of the course in practical biology is to furnish opportunity for special biological work along such lines as may be best adapted to the future plans of the student. Seniors intending to study medicine devote their attention largely to

physiology, histology, and the dissection of some mammal. Those desiring a more general course make a brief examination of various groups of the animal and vegetable kingdoms.

Those electing the study for more than one year, spend the first year in the study of biology in general, making a careful study of illustrative types of the different groups of the animal and vegetable kingdoms, such as amœba, infusoria, hydra, earthworm, bacteria, yeast, mould, lichens, mosses, flowering plant, etc. The laboratory work is planned to illustrate, as far as possible, the principles of biology, comparative anatomy, and embryology. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* BIOL. LAB.

Course V. is elective, with the permission of the instructor, for Sophomores.

VI. PRACTICAL BIOLOGY. The second year is devoted to the study of histology, bacteriology, embryology, and mammalian anatomy. During the second half-year each student pursues some special work assigned by the instructor. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* BIOL. LAB.

Course VI. is elective for those who have taken Course V.

VII. PRACTICAL BIOLOGY. A course in laboratory work in continuation of Course VI. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* BIOL. LAB.

Course VII. is elective for those who have taken Course VI.

Courses V.-VII. are accompanied by frequent lectures. The outline of the courses is somewhat variable and is determined according to the purposes and needs of each student.

[VIII.¹ EVOLUTION. A course of lectures and recitations, giving an outline of the general theory of evolution. *Once a week (first half-year).*]

Course VIII. is elective for Juniors.

IX.¹ BACTERIOLOGY. Conn's Agricultural Bacteriology is used as a text-book, and is supplemented by lectures on pathological bacteriology. *Tu., Th., at 8 (first half-year).* (VII.)

Course IX. is elective for Juniors. Courses VIII. and IX. are given in alternate years, Course VIII. being omitted the present year.

EXAMINATION GROUPS.

No student is allowed to take more than one course in any of these groups, with the exception of those (bracketed together) which are not given in the same half-year. The following courses are not assigned to any group, and they may be elected without limitation: VI., VII., XX. Latin; III., V., IX. German; Debate; VI. History; Greek History; VIII. Economics; IX., X. Philosophy; III., IV., X., XI., XIV. Physics; III., IV., VII., VIII., X., XI., XII. Chemistry; V., VI., VII. Biology.

I.—*M., W., F., at 8.*

Linguistics, *W.*

V. Greek, *M., F., also Th., at 10.*

I. German.

I. French.

V. French, *W.*

VI. English Literature, *F.*

{ III. English Language, *W., F.*

{ IV. English Language, *W., F.*

VI. Mathematics, *W., F.*

V. Chemistry.

Physiology, *M., W.*

II.—*M., W., F., at 9.*

I. Latin, *also Th.*

Italian, *M., W.*

III. English Literature.

V. History.

XIV. Mathematics, *W., F.*

XV. Physics, *W.*

IX. Chemistry, *F., also at 12.*

Zoölogy, *M., W.*

III.—*M., W., F., at 10.*

I. Greek, *T., W., Th., F.*

Psychology.

{ Ethics, *W., F.*

{ Evidences, *W., F.*

I. Physics.

IV.—*M., W., F., at 11.*

X. Latin, *M., at 11, F., at 10.*

VII. Greek, *M., W., also F., at 9.*

II. German.

V. English Literature, *M., W.*

I. Economics, *M., W.*

*V. Philosophy, *F.*

{ XI. Philosophy, *M., W.*

{ XII. Philosophy.

II. Mathematics, *M., W.*

VIII. Physics, *M., W.*

V.—*M., W., F., at 12.*

XVIII. Latin, *M., W.*

VIII. Greek, *F.*

III. French, *F.*

I. English Literature, *M., W.*

III. Economics, *M., W.*

I. Mathematics, *M., T., Th., F.*

VII. Mathematics, *W., F.*

XI. Mathematics, *M., W.*

V. Physics, *M., W.*

{ II. Geology.

{ III. Geology.

* May be elected with I. Economics.

VI.—*M., W., F., at 3.**VI. English Language, *W., F.*VII. English Language, *M.*III. Philosophy, *M., W.*{ Physical Geography, *M., F.*{ Botany, *M., W., F.*† General Biology, *W.***VII.—*T., Th., at 8.***

II. French.

I. English Language, *M., T.,*
also M., at 9.

II. History.

Science and Religion.

Bacteriology.

VIII.—*T., Th., at 9.*

{ II. Latin.

{ III. Latin.

VI. Greek.

VII. German.

VII. Economics.

Astronomy.

XIII. Physics.

IX.—*T., Th., at 10.*

IV. French.

Logic.

{ IV. Philosophy.

{ VI. Philosophy.

{ I. Chemistry, *also W.*

{ II. Chemistry.

X.—*T., Th., at 11.*

VIII. Latin.

XI. Latin.

III. Greek, *T.*V. English Language, *Th.*

IV. Economics.

{ VII. Philosophy.

{ VIII. Philosophy.

IV. Mathematics.

II. Physics.

{ VI. Physics.

{ VII. Physics.

VI. Chemistry.

XI.—*T., Th., at 12.*

{ XII. Latin.

{ XIII. Latin.

II. Greek.

VIII. English Language, *Th.*III. Elocution, *Th.*V. Mathematics, *also F.*

XII. Mathematics.

I. Geology.

XII.—*T., Th., at 3.*

{ IV. Latin.

{ V. Latin.

IV. German, *T.*VIII. German, *T.*

II. Elocution.

I. History.

* May be elected with VII. English Language.

† May be elected with Physical Geography and Botany.

SELECTION OF STUDIES.

The studies which are required of students in the respective classes and courses are indicated below. In addition to these, each student of the three upper classes is required to elect such a number of studies that his *average* number of recitations and lectures a week for the year, exclusive of rhetorical exercises, shall be not less than 14 nor more than 17. The minimum requirement for Freshmen is 15 recitations and lectures a week for the year, exclusive of declamations; the maximum is 17. Elections must be made in accordance with the restrictions specified in the description of the respective courses in the foregoing statement of the courses of instruction. *No student is allowed to take more than one course in any examination group (see pages 67, 68), with the exception of those which are not given in the same half-year.*

SCHEDULE OF REQUIRED STUDIES.

N. B.—The numbers in *italics* indicate the average number of hours a week for the year.

CLASSICAL COURSE.

FRESHMEN:—I. Latin, *4*; I. Greek, *4*; I. Mathematics, *4*; I. English Language, *2*; I. German, or I. French, *3*.

SOPHOMORES:—Logic, *1*; I. Physics, *2½*; I. Chemistry, *1½*.

JUNIORS:—Psychology, *1½*; I. Economics, *2*. (I. Economics may be postponed to the Senior year, or may be taken, with the permission of the instructor, in the Sophomore year.)

SENIORS:—Ethics, *1*; Evidences of Christianity, *1*.

LATIN-SCIENTIFIC COURSE.

FRESHMEN:—I. Latin, 4; I. Mathematics, 4; I. English Language, 2; Physical Geography, General Biology, and Botany, 3; I. or II. French, or I. or II. German, 2 or 3. (See page 44.)

SOPHOMORES:—Logic, 1; I. Physics, 2½; I. Chemistry, 1½.

For such part of the courses in science or modern languages above named as students may have passed in at entrance, they will be allowed to substitute enough elective work to fill out the required quota of exercises a week.

JUNIORS:—Psychology, 1½; I. Economics, 2. (See requirements for classical course.)

SENIORS:—Ethics, 1; Evidences of Christianity, 1.

SCIENTIFIC COURSE.

FRESHMEN:—Not less than fifteen hours a week of the following courses: I. Mathematics, 4; I. English Language, 2; I. German, 3, and II. French, 2, or II. German, 3, and I. French, 3 (see page 44); I. Physics, 2½; I. Chemistry, 1½; Physical Geography, General Biology, and Botany, 3.

For such of these studies as students may have passed in at entrance, they are allowed to substitute elective work.

SOPHOMORES:—II. German, 3, or II. French, 2 (see page 44); Logic, 1; Astronomy, 2; Geology, 2; Physiology, 2.

JUNIORS:—Psychology, 1½; I. Economics, 2. (See requirements for classical course.)

SENIORS:—Ethics, 1; Evidences of Christianity, 1.

In addition to the courses indicated in the foregoing statement, exercises in English composition and in public speaking are required of Freshmen and Sophomores, exercises in English composition of Juniors, and exercises either in English composition or in public speaking of Seniors. (See pages 46, 47, 49.)

DAILY PROGRAM.

The order of lectures and recitations is set forth in the table given on pages 72 and 73. In that table the sign (*) indicates that an exercise occurs only occasionally, the particular days to be announced by the instructor. Roman numerals preceding the names of certain studies refer to the numbers of the courses as enumerated in the foregoing statement of courses of instruction. Arabic numerals, following the names of certain studies, indicate the sections into which the classes are divided.





1. Latin, 2. XX. Latin.
II. German.
V. Philosophy (1st half).
X. Philosophy.
XII. Philosophy (2d half).

I. Latin, 2. VII. Greek.
III. Greek.
IV. Economics.
VII. Philosophy (1st half).
VIII. Philosophy (2d half).
IX. Mathematics.
X. Physics.

I. Latin, 2. VII. Greek.
III. Greek.
IV. Economics.
VII. Philosophy (1st half).
VIII. Philosophy (2d half).
IX. Mathematics.
X. Physics.

I. Latin, 2. VII. Greek.
III. Greek.
IV. Economics.
VII. Philosophy (1st half).
VIII. Philosophy (2d half).
IX. Mathematics.
X. Physics.

I. Latin, 2. VII. Greek.
III. Greek.
IV. Economics.
VII. Philosophy (1st half).
VIII. Philosophy (2d half).
IX. Mathematics.
X. Physics.

I. Latin, 2. VII. Greek.
III. Greek.
IV. Economics.
VII. Philosophy (1st half).
VIII. Philosophy (2d half).
IX. Mathematics.
X. Physics.

I. Latin, 2. VII. Greek.
III. Greek.
IV. Economics.
VII. Philosophy (1st half).
VIII. Philosophy (2d half).
IX. Mathematics.
X. Physics.

I. Latin, 2. VII. Greek.
III. Greek.
IV. Economics.
VII. Philosophy (1st half).
VIII. Philosophy (2d half).
IX. Mathematics.
X. Physics.

I. Latin, 2. VII. Greek.
III. Greek.
IV. Economics.
VII. Philosophy (1st half).
VIII. Philosophy (2d half).
IX. Mathematics.
X. Physics.

I. Latin, 2. VII. Greek.
III. Greek.
IV. Economics.
VII. Philosophy (1st half).
VIII. Philosophy (2d half).
IX. Mathematics.
X. Physics.

3.

<p>VI. Latin. I. French, 2. VII. English Language. III. Philosophy. VIII., X. III., IV., VII., VIII., X. Chemistry. Physical Geography (1st half). Botany (2d half).</p>	<p>IV. Latin (1st half). V. Latin (2d half). VIII. German. II. Eloquence. I. History. Logic, 2 (2d half). III., IV., X., XI., XIV. Physics. V., VI., VII. Biology.</p>	<p>General Biology (1st half). Botany (2d half). V., VI., VII. Biology. Declaration (Soph., 5).*</p>	<p>IV. Latin (1st half). V. Latin (2d half). II. Eloquence. I. History. Logic, 2 (2d half). Psychology, 2 (1st half). III., IV., X., XI., XIV. Physics. V., VI., VII. Biology.</p>	<p>I. French, 2. VI. English Language. III., IV., VII., VIII., X. Chemistry. Physical Geography (1st half). Botany (2d half).</p>
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Declaration (Freshmen, 4)*

GENERAL REGULATIONS.*

QUOTA OF STUDIES.

For students of the three upper classes, the quota of regular studies is, for a minimum, fourteen hours, and for a maximum, seventeen hours of class-room work a week, exclusive of rhetorical exercises. The quota for Freshmen (see pages 69 and 70) varies from fifteen to seventeen hours of class-room work a week, exclusive of declamations. No student is allowed to take less than fourteen, nor more than seventeen, hours of work a week without special permission from the Faculty.

GRADES.

The general character of the work of each student in each study is indicated by his assignment to one of five grades, grade 1 denoting the highest excellence, and grade 5, failure to pass. The Secretary of the Faculty sends to each student, within three weeks after Commencement, a report of his grades in all the studies which he has taken during the year.

EXAMINATIONS.

Regular examinations are held at the end of the college year, and during a specified period in February, according to the times at which the respective studies are completed. No student who has been absent from fifteen per cent. or more of the required exercises in any study can be admitted to examination in that study, except by special permission from the Faculty. Such permission may be accorded when the Faculty are convinced that the absences have not been due to culpable negligence. In the application of this rule, absences from the first or the last exercise of a term in any study, or consecutive absences including the first or the last exercise, are each reckoned as two absences.

* Copies of the detailed Regulations may be obtained from the Secretary.

To students who, for any reason, have not passed at a regular examination, opportunities for special examinations are given at specified times. A student who fails to pass a final examination in any study before that study is taken up by the next succeeding class, is required, unless specially excused therefrom, to recite with that class. If, at the close of the special examinations held at the beginning of the year, a student is deficient by an amount equivalent to six or more hours of work a week for a year, he is ranked with the next lower class, unless specially excused therefrom by the Faculty.

ENTRANCE CONDITIONS.

A student who fails to make up entrance conditions before the first day of November of the next college year, is excluded from all recitations until the conditions are made up.

PUBLIC WORSHIP.

Devotional services, at which the attendance of students is required, are held in the College Chapel every morning.

Every student is required to attend the Sunday morning service in some one of the churches in the city.

A limited number of absences from chapel and church are allowed, without the presentation of any excuse.

Voluntary religious services under the direction of the several college classes and of the Young Men's Christian Association are held weekly.

ATHLETIC AND MUSICAL ORGANIZATIONS.

No member of the Senior or Junior class who is deficient in his college work more than two hours a week for a year, and no member of the Sophomore class who is deficient more than three hours a week for a year, is allowed to take part in any athletic contest with another team, except by special permission; and any student who becomes notably deficient in his work during the year may be debarred from taking part in such a contest.

Members of the college musical organizations, who are deficient as specified in the preceding paragraph, are not allowed to appear in public concerts given by those organizations.

No student under censure is allowed to serve, without permission of the Faculty, in any capacity on an athletic organization or on a musical association giving public concerts.

LEAVE OF ABSENCE

A student who desires excuse from college exercises on account of absence from town must apply to the President for permission to be absent, and, unless the circumstances of the case render it impracticable, such permission must be obtained before the student's departure.

EXPENSES.

The annual charges in the Treasurer's bill are as follows:—

Tuition,	-	-	-	-	-	-	-	-	\$75 00
Rent and care of half-room, unfurnished, from \$18									
to \$40; average,	-	-	-	-	-	-	-	-	29 00
Steam heat; average for half-room,	-	-	-	-	-	-	-	-	8 00
Incidentals (lighting, heating, and care of public									
rooms, gymnasium fee, etc.),	-	-	-	-	-	-	-	-	27 00
Use of library and reading-rooms,	-	-	-	-	-	-	-	-	6 00
Total,	-	-	-	-	-	-	-	-	\$145 00

For the laboratory courses in physics, chemistry, and biology, fees are charged, which vary with the nature of the course and with the number of exercises elected per week. The fee for each exercise per week in practical physics, in practical biology, and in III., VIII., and X. Chemistry is five dollars; in IV. Chemistry, eight dollars; and in VII. Chemistry, ten dollars. In the chemical courses named, a moderate additional charge is made for breakage.

Women residing in the Women's Hall are charged at the rate of five dollars and a half a week for board and room-rent. Those residing elsewhere in the city are charged two dollars a term for the use of the study-room in the Women's Hall.

A diploma fee of five dollars is charged to each student at graduation.

A diploma fee of ten dollars is charged to each graduate student upon promotion to the Master's degree.

The college bills are payable at the commencement of each term; a rebate of one dollar is made on all college bills that are paid on or before the day appointed. Unless the bill for any term is paid, or payment thereof guaranteed, before the commencement of the following term, the student is liable to exclusion from recitations.

No student can have an honorable dismissal, or certificate of progress in his studies, until his bills are paid or payment thereof guaranteed.

A student who is absent from college on account of sickness, or for other cause, and who retains his place in his class, must pay the full college bills during his absence.

The rooms in the college buildings are rented to students during term time only, and must be vacated at the close of the third term. Students are held accountable for any damage done to their rooms. During the summer vacation the rooms are put in order, and the expense charged to the occupants.

Students are permitted to take lodgings in town, but the places in which they room or board are in all cases subject to the approval of the Faculty. If any of the rooms in the college are thus left vacant, the rent of such rooms may be charged to holders of free scholarships who room in town.

Board may be obtained in private families at prices varying from \$3.75 to \$5.00 a week. A majority of the students board in clubs, at prices ranging from \$3.00 to \$4.00 a week. The price of board at the college commons is \$2.35 a week.

Other expenses incident to college life vary with the habits and circumstances of the student. They are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and health have been compelled to leave the college for want of money.

THE COMMONS.

In order to reduce the expense of a college course, the college has established a commons, where board may be obtained at a low rate. The building known as the Foss House has been fitted up for the use of the commons, and a new dining-hall has been built in the rear

affording accommodation for about one hundred boarders. There is also a sitting-room which serves as a library and reading-room. The upper rooms of the house are rented unfurnished for dormitory purposes, at lower rates than the rooms in North College.

An organization has been effected by the members of the commons, and it is intended to make the club as attractive as possible in a social way. Some attention is also given to debate and to various literary exercises.

The college is responsible for the general management of the commons, the details being in charge of a matron who is responsible to a college officer. Bills are paid into the college treasury, and the college assumes all financial responsibility. The rate of board has been fixed at two dollars and thirty-five cents a week.



MATERIAL EQUIPMENT.

LIBRARY AND READING-ROOMS.

THE LIBRARY in Rich Hall contains about sixty-one thousand volumes. The library is open every week-day of the college year from 8:15 A. M. to 10 P. M. Students are allowed direct access to the shelves. Copies of the library rules may be obtained from the Librarian.

On the first floor of North College is a reading-room, provided with the principal newspapers, daily and weekly. Another reading-room, on the second floor of Rich Hall, contains the current issues of the most important magazines, journals, and reviews, literary and scientific, American and foreign.

ASTRONOMICAL OBSERVATORY.

THE OBSERVATORY is used for purposes of instruction, and is well equipped therefor. Students in astronomy have frequent opportunities to examine the most interesting celestial objects through the telescope; and members of the class in practical astronomy are instructed in the theory and use of all the instruments in the observatory.

The principal instruments are an equatorial of twelve inches aperture, by Alvan Clark & Sons, provided with a filar micrometer, a polarizing photometer, and spectroscopes, solar and stellar, two of which have very high dispersive power; a transit instrument of three inches aperture, with collimators of the same aperture, and adapted to use as a zenith telescope; a prime vertical instrument of the same size; sextants; two astronomical clocks; a chronometer; and a chronograph.

LABORATORIES AND APPARATUS.

THE LABORATORY OF EXPERIMENTAL PSYCHOLOGY contains a collection of apparatus for illustration and experiment in the field of physiological and experimental psychology. The equipment is sufficient for a thorough course with demonstration and for some advanced

research. Among the principal pieces of apparatus are models of the nervous system, a Hipp chronoscope, Helmholtz's rotation apparatus, Schumann's "Zeitsinn" apparatus, a chronograph, a pendulum-tachistoscope, a sphygmograph, a plethysmograph, stereoscopes, tuning-forks, electrical supplies, etc. The laboratory occupies at present No. 7 South College.

THE PHYSICAL LABORATORY is equipped with apparatus for the performance of the experiments usually undertaken in undergraduate courses. In the department of electricity, facilities are afforded for instruction in the use of all important electrical instruments and machines. The laboratory work in all departments except electricity is carried on in Observatory Hall. The electrical work is carried on partly in the dynamo-room and partly in a separate laboratory closely adjacent. The dynamo-room contains a 25 horse-power engine, several dynamos and motors, transformers, and a variety of testing instruments.

THE CHEMICAL LABORATORY occupies seven rooms in Judd Hall. A large working-room on the first floor, with a balance room adjoining, furnishes accommodations for about fifty students, and smaller rooms afford conveniences for the work of instructors, assistants, and graduate students. Two other rooms on the first floor are used for library, seminary, and office purposes. A large room in the basement serves for the laboratory work of the required course in elementary chemistry.

THE CRYOGENIC LABORATORY, soon to be installed, will furnish ample facilities for demonstration and for research at low temperatures. Through the generosity of alumni and others it has been made possible to provide the necessary machinery for a complete liquid air plant, consisting essentially of a 6 horse-power oil motor, an air compressor capable of delivering air at a pressure of 3,000 pounds, and a liquefier. Subsidiary apparatus will be provided as may be necessary.

THE BIOLOGICAL LABORATORY occupies six rooms in Judd Hall, and is capable of accommodating about thirty students. Four rooms are used for general laboratory purposes, of which one is devoted to miscellaneous laboratory work, one to physiological work, one to coarse dissection, and one to bacteriological work. The laboratory is equipped with all the apparatus necessary for elementary biological work, and is provided with an abundance of material for anatomical

and histological study. The general laboratory room contains a type collection illustrating all orders of animals, and students are allowed to use the large museum collection for comparison and direct study.

THE MACHINE SHOP occupies the west room in the boiler house, and is in charge of a skilled mechanician. It affords facilities for the repair of apparatus belonging to the college, for the construction of new apparatus, and for the instruction of students who find a certain degree of mechanical skill necessary to complete their training in the scientific departments.

MATHEMATICAL MODELS. This collection, the gift of Ebenezer Hill, Esq., of the class of 1870, comprises a complete set of the models made by Brill of Darmstadt, for illustration in the higher branches of mathematics, as well as in mathematical physics and crystallography. The models are arranged in a series of cases in the mathematical reading-room in Observatory Hall.

GYMNASIUM AND ATHLETIC FIELD.

THE FAYERWEATHER GYMNASIUM is located on the north side of the rear campus, parallel with Wyllys Avenue. Its dimensions are 55 by 120 feet.

The basement contains two bowling alleys, a base-ball cage, baths, lockers, and toilet rooms.

On the first floor is the main hall of the gymnasium, which is well equipped and affords ample room for every variety of gymnastic exercise. The director's office and rooms for baths and lockers are also on the first floor. The running track is suspended from the roof, above the main floor. On the second floor is a trophy room, used also as a committee room by the various athletic organizations, as well as additional baths and lockers. Special attention has been paid to ventilation, drainage, and lighting, and the present structure is believed to contain the best features of a modern gymnasium.

The gymnasium is in charge of a competent director. Exercise in the gymnasium is required of the men of the Freshman and Sophomore classes, three hours a week, from Thanksgiving to the end of the winter term. Elective work in the gymnasium is offered to the men of the Junior and Senior classes.

Through the generosity of Mr. J. E. Andrus, of the class of 1862, a trustee of the University, a well equipped athletic field has been laid out. The field is in the rear of the main line of college buildings, just south of the gymnasium. A quarter-mile cinder track, with a "straight-away" of 200 yards, encircles one portion of the field, within which ample room is afforded for base-ball, foot-ball, and field and track athletics. The entire field, covering seven acres, provides sufficient space for class and 'varsity teams to practice at the same time. Its proximity to the college enables the whole student body to keep in touch with the training in all branches of athletics, and affords the teams an opportunity to use the dressing rooms and baths reserved for them in the gymnasium.

MUSEUM.

THE MUSEUM OF NATURAL HISTORY AND ETHNOGRAPHY occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with special reference to their educational use, and are freely accessible to students.

The nucleus of the departments of zoölogy and botany was formed by the Shurtleff collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The Zoölogical Department received in the years between 1872 and 1881 most important accessions in liberal donations and exchanges from the Smithsonian Institution, and in collections made by the curators on the coast of New England, through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland also added large and valuable collections. Valuable collections of insects were presented by Richard L. de Zeng in 1896, and by Mrs. E. K. Hubbard in 1898. This department includes about thirteen thousand species. The vertebrata of North America, the marine invertebrata of New England, and the mollusca in general, are especially well represented.

The Herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many specimens from foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the University in 1879.

The Mineralogical Department includes about three hundred and fifty species, and a much larger number of varieties. The Franckfort collection, purchased in 1858, contains many choice specimens, mostly from European localities. The minerals of the interesting region in which Middletown is situated are well represented by collections commenced by the labors of Professor Johnston, and largely increased in later years. Important accessions were obtained in 1899 by collecting trips to Nova Scotia and to Herkimer County, N. Y.

The Geological Department includes collections in lithology, physical geology, and paleontology. The lithological collection received in 1897 a most valuable accession in the gift of a set of the educational series of rock specimens described in Bulletin No. 150 of the U. S. Geological Survey, presented by the Survey. A suite of Ward's casts of fossils, presented by Orange Judd, M. A., in 1871, serves an excellent purpose in the work of instruction, affording the student a representation of many remarkable forms of ancient life, actual specimens of which are rare or unique. A valuable collection of Tertiary fossils was received in 1887 from the Smithsonian Institution, in exchange for duplicate shells from the Shurtleff collection. The collections in paleontology have been very largely increased since 1893 by the work of the present curator in the vicinity of Middletown, at Valcour Island, Lake Champlain, in western Maryland, in the vicinity of Chattanooga, Tenn., Canon City and Florissant, Col., and Fossil, Wyo., and in Nova Scotia. A choice collection of European fossils, including a number of beautiful specimens from the lithographic limestone of Solenhofen, was received in 1895 from the Museum of Munich, in exchange for American fossils. The private collection of Mr. Loper, purchased for the museum in 1900, is very rich in fossil fishes and plants from the fossiliferous shales of the vicinity of Middletown.

The Ethnographical Department is especially rich in specimens illustrating the life of the Aborigines of North America. Important contributions of pottery, casts of implements, models of dwellings, and other objects have been received from the Smithsonian Institution. A very valuable collection of objects from burial mounds near Chattanooga, Tenn., was deposited in the museum in 1896 by A. R. Crittenden, and has since then been purchased. The department also possesses a valuable collection of pottery from the guano beds of Peru, presented by the late Joseph S. Spinney; an interesting collection of weapons and other objects from the South Sea Islands;

DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks,	-	-	-	-	-	-	-	-	14,500
Fossils—Paleozoic,	-	-	-	-	-	-	-	-	9,500
Mesozoic,	-	-	-	-	-	-	-	-	2,500
Cenozoic,	-	-	-	-	-	-	-	-	3,000

DEPARTMENT OF ETHNOGRAPHY.

Miscellaneous ethnographic specimens,	-	-	-	-	-	-	-	-	2,800
Coins,	-	-	-	-	-	-	-	-	5,000

The museum is open to the public on Wednesday and Saturday afternoons.



SCHOLARSHIPS.

TUITION SCHOLARSHIPS.

Each year the Trustees place at the disposal of the President, for the benefit of needy and worthy students, a sum of money which is used to pay, in whole or in part, the charge for tuition. The sum appropriated for the current year is \$12,000.

In addition to these are the following:—

THE JOHN EVANS SCHOLARSHIP.

This scholarship was founded by Mrs. Ann Evans in memory of her husband. The income is about one hundred dollars, and is given annually to that member of the Senior or Junior class who is named by the Board of Trustees, or by some authority to whom they may delegate the nomination. For this scholarship, only such students as are preparing themselves for the ministry, and are already licentiates in the Methodist Episcopal Church, can be candidates.

THE SQUIRE SCHOLARSHIP.

This scholarship was founded by Hon. Watson C. Squire, B. A. In accordance with its provisions, the income of \$5,000 is awarded to that member of the Senior class who passes the best examination in Greek, provided that the successful candidate devote the ensuing year to classical study, in residence in the University, or in connection with travel or residence abroad, at his option, subject to the approval of the Committee on Graduate Instruction.

THE JONES SCHOLARSHIP.

This scholarship was founded by Frank S. Jones, Esq. The income, amounting to fifty dollars, is available, at the discretion of the President, for the use of a deserving student who needs pecuniary assistance.

COLLEGE HONORS.

PRIZES.

The Harrington Prize, the gift of Rev. Edmund Mead Mills, D. D., in memory of Professor C. S. Harrington, is awarded for the best essay on some specified subject in the department of history. The subject for the essay of 1902 is: The Voyages of the Cabots.

The Joseph D. Weeks Prize, the gift of Joseph Dame Weeks, M. A., is awarded for the best essay on some specified subject in the department of economics. The subject for the essay of 1902 is: Christianity and the Labor Problem. The essays must be left with the head of the department on or before the third Monday in May (May 19, 1902).

The Peirce Prize, the gift of Rev. Bradford K. Peirce, D. D., is awarded for excellence in natural science. It will be given in 1902 upon a special examination based on Course I. in chemistry. The subject of the examination in 1903 will be geology; in 1904, biology.

The Phi Beta Kappa Prize is awarded for excellence in Latin. It will be given in 1902 upon a special examination on the topography of ancient Rome.

The G. Brown Goode Prize, the gift of Mrs. G. Brown Goode, is awarded for the best original investigation in the department of natural history.

No person who has once taken either the Harrington, the Joseph D. Weeks, the Phi Beta Kappa, or the G. Brown Goode prize, may compete for it again.

The Weeks Prize, the gift of Joseph Dame Weeks, M. A., is awarded for excellence in modern philosophy. It will be awarded in 1902 for the best examination in Courses VII. and VIII. in philosophy, and for additional work to be assigned by the instructor.

A prize is awarded for excellence in Greek archaeology. It will be given in 1902 upon a special examination in Course VIII. in Greek.

The Camp Prize, the gift of Samuel T. Camp, Esq., is awarded for excellence in English literature. It will be given in 1902 upon a special examination in Course I. in English literature.

The Johnston Prize, the gift of Rev. David G. Downey, D. D., in memory of Professor John Johnston, is awarded for excellence in electricity. It will be given in 1902 upon a special examination based on Course II. in physics.

The Spinney Prize, the gift of Mrs. Joseph Spinney, is awarded for excellence in Greek. It will be given in 1902 upon a special examination based in part on the first half of Course II. in Greek.

The Rice Prize, the gift of Rev. William Rice, D. D., is awarded for excellence in mathematics. It will be given in 1902 upon a special examination based on Course V. in mathematics.

Students who compete for either the Weeks, the Greek archæology, the Camp, the Johnston, the Spinney, or the Rice prize must do so during the year in which they regularly pursue the course or courses on which the examination for the prize is based.

The Wise Prize, the gift of Rev. Daniel Wise, D. D., is awarded to that member of the Senior class who excels in ethics.

The Walkley Prize, the gift of Webster R. Walkley, M. A.,—*in memoriam* David Hart Walkley, graduated June, 1878; died September 16, 1878,—is awarded to that member of the Junior class who excels in psychology. It will be awarded in 1902 for the best examination on the work of the required course in psychology, together with additional work to be assigned by the instructor.

The Sherman Prize, the gift of Rev. David Sherman, D. D., is awarded this year to that member of the Freshman class who excels in Greek. The examination is based on Course I. in Greek. The subject of the examination in 1903 will be mathematics; in 1904, Latin.

The Ayres Prize, the gift of Daniel Ayres, M. D., LL. D., is awarded to that member of the Freshman class who is found upon a special examination, held shortly after the beginning of the college year, to have attained the highest excellence in the studies preparatory to admission to the classical course.

The Rich Prize, the gift of Mrs. Isaac Rich, is awarded to that member of the Senior class whose oration at Commencement is deemed best in composition and delivery. Each oration must not

exceed twelve hundred words, and must be left with the Professor of English Literature on or before the second Tuesday preceding Commencement (June 17, 1902).

The Olin Prize, the gift of Mrs. Julia M. Olin, is awarded to that member of the Senior class who excels in English composition. The subject for the essay of 1902 is: British Rule in India as a Sample of Government by a Superior and Alien Race. The subject for the essay of 1903 is: Recent Tendencies in English and American Fiction. Essays must be left with the Professor of English Literature on or before the first Monday of the third term (April 7, 1902).

Two prizes are awarded, as a first and second prize respectively, to the two members of the Junior class who present the best orations at the annual Junior Exhibition. In the award of these prizes, both the composition and the delivery of the orations are considered. The orations must be left with the Professor of the English Language on or before the first Saturday in the third term (April 5, 1901).

The Briggs Prize, the gift of James E. Briggs, Esq., is awarded to that member of the Junior class who excels in debate.

The Parker Prize, the gift of Rev. John Parker, for excellence in declamation, is awarded to the best speaker in the Junior and Sophomore classes.

A second prize is awarded, in the same classes, for excellence in declamation; but, in the competition for it, selections of a dramatic character, and from poetry, are excluded.

The Hibbard Prize, the gift of Professor Ralph G. Hibbard, M. A., is awarded to that member of the Freshman class who excels in declamation.

The Taylor Prize, the gift of Rev. George Lansing Taylor, D. D., is awarded to that student who presents the best English poem. The poem must be left with the Professor of English Literature before the Senior examination.

Competition for the Rich prize, the Junior Exhibition prizes, the Briggs prize, the Parker prize, the second prize for declamation, and the Hibbard prize, is limited to men.

The several committees of award will withhold any prize, if, in their judgment, none of the exercises presented in competition for it possess the requisite merit.

AWARD OF PRIZES, 1900-1901.

The Harrington Prize, to EVERETT LYNN THORNDIKE.

Committee of Award:—George Parker Winship, M. A., Librarian of the John Carter Brown Library, Providence, R. I.

The Joseph D. Weeks Prize, to WILLIAM CHAUNCEY RICE.

The Peirce Prize, to SAMUEL FULLER CROWELL.

The Phi Beta Kappa Prize, to WALLACE SELDEN BOARDMAN and WILLIAM HARRY CLEMONS.

The Weeks Prize, to ALFRED SAMUEL CLAYTON.

The Greek Literature Prize, to WILLIAM HARRY CLEMONS and EVERETT LYNN THORNDIKE.

The Camp Prize, to WILLIAM HARRY CLEMONS.

The Johnston Prize, to OLIN FISK HERRICK.

The Spinney Prize, to ROBINSON SPENCER. Honorable mention, IRVING MONROE ANDERSON.

Committee of Award:—Arthur Gordon Leacock, Ph. D., of Phillips Exeter Academy.

The Rice Prize, to GEORGE WILBER HARTWELL.

The Wise Prize, to ALFRED SAMUEL CLAYTON.

The Walkley Prize, to FANNIE MYERSON.

The Sherman Prize, to PAUL NIXON.

The Rich Prize, to EMMETT WELLS GOULD.

Committee of Award:—Rev. Arthur Benton Sanford, D. D., of Brooklyn, N. Y.; President Abram Winegardner Harris, LL. D., of the University of Maine; and Rev. Walter Perley Buck, M. A., of Taunton, Mass.

The Olin Prize, to WILLIAM CHAUNCEY RICE. Honorable mention, JAMES HERBERT TUCKLEY.

Committee of Award:—Professor Ashley Horace Thorndike, Ph. D., of Western Reserve University.

The First Junior Exhibition Prize, to WILLIAM GRAY HARRIS.

Committee of Award:—Rev. Arthur Henry Goodenough, D. D., of Bristol; Rev. Samuel Rakestraw Colladay, S. T. B., of the Berkeley Divinity School; and Rev. Frederick William Greene, of Middletown.

The Second Junior Exhibition Prize, to GEORGE WASHINGTON HARPER, JR.

Committee of Award:—Same as for the First Junior Exhibition Prize.

The Briggs Prize, to CHARLES ELMER WALDRON.

The Parker Prize, to OLIN MASON CAWARD.

Committee of Award:—Henry Smith Noble, M. D., of Middletown; Clarence Everett Bacon, M. A., of Middletown; and Rev. George Seymour Godard, B. D., State Librarian, Hartford.

The Second Prize in Elocution, to JOHN TANNER RUSSELL.

Committee of Award:—Same as for the Parker Prize.

The Hibbard Prize, to HENRY CHAUNCEY GUERNSEY.

Committee of Award:—Same as for the Parker Prize.

The Taylor Prize, to JAMES HERBERT TUCKLEY.

The Ayres Prize, for the current year, to GEORGE GREENWOOD REYNOLDS, 2d, prepared at the Adelphi Academy, Brooklyn, N. Y.

APPOINTMENTS FOR JUNIOR EXHIBITION AND COMMENCEMENT.

The Junior Exhibition is held on the third Thursday evening of the spring term (April 17, 1902). The speakers are selected from the men of the Junior class according to their grade in composition and declamation subsequent to the Freshman year. The speakers at Commencement are selected from the men of the Senior class according to their grade in the rhetorical exercises of the Junior and the Senior year, the declamations of the Sophomore year, and Course II. in elocution. The grades of those students who elect, and of those who do not elect Course II. in elocution, are reduced to the same scale for the purpose of this selection. The number of speakers at each of these public exercises is limited to eight.

The speakers last year were:—

JUNIOR EXHIBITION.

WILLIAM HARRY CLEMONS,	WILLIAM GRAY HARRIS,
SAMUEL FULLER CROWELL,	EDWARD ANDREWS INGRAHAM,
PHILIP PRESCOTT FROST,	JAMES WISWELL MUDGE,
GEORGE WASHINGTON HARPER, JR., CARL FOWLER PRICE.	

COMMENCEMENT.

BURTON HOWARD CAMP,	THOMAS SPARKS CLINE,
FRANKLIN HALSTED CLAPP,	LUTHER GARDNER COBURN,
ALFRED SAMUEL CLAYTON,	EMMETT WELLS GOULD,
FRANK BERTRAM WADE.	

HONORS IN SCHOLARSHIP.

I. HONORS IN GENERAL SCHOLARSHIP.—Two grades of honor, designated respectively as honors and high honors, are conferred at graduation, based upon the general scholarship of the student throughout his whole course.

An honor in general scholarship is awarded to a student who has received a grade not below third on an aggregate of not less than 62 hours' work, as reckoned in the record of standings, has received first grade on a number of hours' work not less than the part of the 62 hours' work on which he has received third grade, and has not fallen below fourth grade in any study of the course.

A high honor in general scholarship is awarded to a student who has received a grade not below second on an aggregate of not less than 62 hours' work, has received first grade on an aggregate of not less than 50 hours' work, and has not fallen below third grade in any study of the course.

II. PRELIMINARY HONORS.—Preliminary honors are awarded in the departments of classics and mathematics at the end of the Sophomore or Junior year, and no student can receive special honors at graduation in Greek, Latin, or mathematics, who has not previously received the corresponding preliminary honors. Notice of candidacy for preliminary honors must be given to the senior officer of the department, and to the Secretary of the Faculty, as early as the first Monday of the third term of the year in which the candidate intends to present himself for the special examination (April 7, 1902). The case of each candidate is decided by the Faculty. The special regulations concerning the award of preliminary honors are as follows:—

Classics.—I. The candidate must not fall below third grade, and must maintain an average standing of second grade, in the following courses:—I., II., and III. Greek, and in Latin I., VI., and any two of the Courses II.—V.

2. He must also pass with distinction a special examination, held near the end of the academic year, and designed to test (*a*) his ability to translate Greek and Latin into English at sight, and (*b*) his knowledge of Greek and Latin grammar, and of Greek and Roman antiquities, mythology, and political and literary history.

Mathematics.—1. The candidate must not fall below third grade, and must maintain an average standing of second grade in the required course in mathematics, and in such elective courses, amounting to not less than five hours a week, as may be approved by the head of the department. Courses IV. and V. are recommended.

2. He must pass with distinction a special examination, held near the end of the academic year, which may cover the entire field of his mathematical knowledge.

III. HONORS IN SPECIAL DEPARTMENTS AT GRADUATION.—Two grades of special honor, designated respectively as honors and high honors, are awarded at graduation in each of the following departments:—

Latin; Greek; German; Romance Languages; English; History; Economics and Social Science; Philosophy; Mathematics; Physics; Chemistry; Geology; Biology.

The conditions upon which special honors in these departments are awarded are as follows:—

(1) The candidate must apply to the officer in charge of the department in which he desires to take honors, and to the Secretary of the Faculty, not later than the first Monday of the third term in the Junior year (April 7, 1902).

(2) He must pass at the regular or special examinations in such studies of the college course as are prescribed for honors in the several departments in the schedule given below; and in such studies he must not fall below third grade, and must maintain an average standing of second grade after the beginning of the Sophomore year, or must receive first grade in all of the prescribed studies which he takes after the beginning of the Junior year.

(3) In addition to the studies regularly prescribed in the schedule below, the candidate must pursue such a course of collateral reading or investigation as is prescribed by the officer in charge of the department, with the approval of a committee of the Faculty. The evidence of his proficiency in this collateral course is given by an examination,

oral or written, by a thesis or essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as may be prescribed by the officer of the department, with the approval of a committee of the Faculty. The case of each candidate is decided by the Faculty.

(4) In addition to other requirements, every candidate for special honors is required to pass a *general examination* covering the entire field of his knowledge in the department in which the honor is given. This examination is oral, and is conducted in the presence of a committee of the Faculty.

(5) No student is awarded special honors who fails to pass in any study of the last two years of the course.

(6) No examination for special honors is given, and no thesis or other work in preparation for special honors is received, after the second Saturday preceding Commencement (June 14, 1902).

The conditions upon which high special honors are awarded are the same as for special honors, with the addition of the following requirements:—

The candidate must receive first grade in all of the prescribed studies which he takes after the beginning of the Sophomore year, and his examinations and other tests must show an exceptionally clear and comprehensive understanding of the studies of the department, and give promise of capacity for independent work.

The following schedule gives the studies required of candidates for special honors in the several departments:—

Latin.—1. So many of the courses in Latin as will amount in the aggregate to not less than twenty hours a week.

2. Courses I. and II. in Greek.

[Candidates for special honors in Latin at graduation are requested to announce their candidacy as early as the beginning of the Junior year.]

Greek.—1. Courses I.–VII., and either Course VIII. or Course IX. in Greek.

2. Course I., and any two of Courses II.–V. in Latin.

German.—1. Courses I.–VII. and IX. in German.

2. Courses I. and II. in French.

3. Course I. in English literature, or Courses III. and IV. in English language.

Romance Languages.—1. All the courses in French and in Italian.

2. Courses I. and II. in German.

English.—1. The required courses in English, including composition.

2. One of the following groups of elective courses:—

(a.) Four courses in English literature, and four courses in English language.

(b.) Four courses in English language, one course in English literature, two courses in German.

(c.) Four courses in English literature, one course in English language, four courses in French or German or both.

(d.) Four courses in English literature, four courses in French or German, one course in English history.

(e.) Five courses in English language, five courses in French or German.

History.—1. All the courses in history.

2. The required course, and one elective course, in economics and social science.

Economics and Social Science.—1. All the courses in economics and social science.

2. Course I., and either Course II. or Course III. in history.

Philosophy.—1. All the courses in philosophy.

2. The course in ethics.

3. The course in theism (for candidates in general philosophy), or Course I. in biology (for candidates in psychology).

Mathematics.—1. The required course in mathematics.

2. Elective courses in mathematics and astronomy, amounting in the aggregate to not less than fifteen hours a week.

3. Course I. in physics.

[Prospective candidates for special honors in mathematics at graduation are advised to take Course V. in mathematics in the Sophomore year.]

Physics.—1. Courses I. and II. in physics.

2. Two years of practical physics (in at least one of which there shall be three exercises a week).

3. Not less than three full courses chosen from the following:—V., VI., VII., VIII., IX., XII., XIII. Physics, and XII. Mathematics (V., VI., and VII. Physics being reckoned as half-courses).

4. Course I. in chemistry.

5. Either Course III. in chemistry or Course V. in mathematics.

Chemistry.—1. Courses I., II., either III. or X., IV., V., and IX. in chemistry (three exercises a week being required in Courses III. and X.).

2. Course I. in physics, and one year of practical physics; or Course VI. in chemistry, and Courses I. and V. in biology.

Geology.—1. Courses I.–VI. in geology.

2. The elementary course in astronomy.

3. Courses III. and IV. in biology.

4. Not less than two of the following courses:—V. and VI. Biology, III. and IV. Chemistry, and IX. Physics.

Biology.—1. Courses I.–VI. in biology.

2. Courses I. and IV. in geology.

3. Course III. in chemistry or Course III. in geology.

[Candidates for special honors in biology are recommended to take at least one summer course in a marine laboratory.]

In all cases in which the foregoing schedule allows option between two or more courses or groups of courses, the student's selection is subject to the approval of the head of the department in which he desires to take honors.

In special cases a candidate for honors may be allowed to substitute other courses for those named in the foregoing schedule, by vote of the Faculty, on recommendation of the head of the department.

An honor of any of the kinds and grades mentioned may be conferred on a student sufficiently meritorious, by vote of the Faculty, even though his record of standing does not completely fulfill the requirements stated above.

The names of those students who take preliminary honors are announced at the public service held in the College Chapel on the Monday preceding Commencement (June 23, 1902).

The names of students who take honors at graduation, whether general or special, are printed on the Commencement program.

AWARD OF HONORS, 1900-1901.

HONORS IN GENERAL SCHOLARSHIP.

HIGH HONORS.

BURTON HOWARD CAMP,	LESTER EDWARD LYNDE,
ALBERT LLOYD COOPER,	WILLIAM CHAUNCEY RICE.

FREDRIKA VAN BENSCHOTEN.

HONORS.

WALLACE SELDEN BOARDMAN,	WALTER NICKERSON HILL,
FRANKLIN HALSTED CLAPP,	RICHARD GRANVILLE POVEY,
ALFRED SAMUEL CLAYTON,	WALTER J RANDOLPH,
THOMAS SPARKS CLINE,	FRANK BERTRAM WADE,
LEE FOSTER HARTMAN,	JOSEPH CLARK WINANS.

ANNIE STRONG BROWN,	LENA ZERVIAH NEWTON,
CHRISTABEL MAY COE,	MAY TOMLINSON PALMER,
MARIE ROSALIE VON ESSEN HUBERT,	EDITH LADORA RISLEY,
JULIA MYRA WILCOX.	

HONORS IN SPECIAL DEPARTMENTS.

HONORS.

Greek.

JOHN BROCKWAY RIPPERS. The Comedies of Aristophanes. Thesis: "Athenian Life as Mirrored in the Comedies of Aristophanes."

German.

FREDRIKA VAN BENSCHOTEN. Studies in Modern German Literature. Thesis: "Goethe as a Culture Force; his Activity in Letters, Science, and Art."

English.

LEE FOSTER HARTMAN. The Poetry of Shelley. Thesis: "A Study of the Prometheus Unbound."

MARIE ROSALIE VON ESSEN HUBERT. The Poetry of Tennyson. Thesis: "Tennyson's Treatment of the Arthurian Legend."

Philosophy.

THOMAS SPARKS CLINE. The Reaction from Agnosticism. Thesis: "Professor Ward's Conception of Teleology."

EMMETT WELLS GOULD. The Reaction from Agnosticism. Thesis: "Some Aspects of the Foundations of Belief."

Mathematics.

BURTON HOWARD CAMP. Higher Plane Curves. Thesis: "A Study of the Form of Cubic Curves and of Unicursal Quartics."

Physics.

WALTER NICKERSON HILL. (1) Mathematical Electricity. (2) Experimental Study of Condensers. Thesis: "The Effect of Temperature upon the Properties of Condensers."

RICHARD GRANVILLE POVEY. (1) Mathematical Electricity. (2) Engineering Applications of Physics. Thesis: "Mechanical Refrigeration and the Liquefaction of Air."

Chemistry.

FRANK BERTRAM WADE. The Liquefaction of Gases. Thesis: "The Existence of Liquid above the Critical Temperature."

PRELIMINARY HONORS.

*Classics.***Sophomores.**

ROBERT HENRY RIPPERS, ROBINSON SPENCER,
GEORGE FRANKLIN STRONG.

*Mathematics.***Junior.**

ISAAC SQUIRE CARROLL.

Sophomores.

GEORGE WILBER HARTWELL, GEORGE MARVIN WARNER.

DEGREES.

The following degrees are conferred by the University, in course:—

BACHELOR OF ARTS.—This degree is conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Classical Course.

BACHELOR OF PHILOSOPHY.—This degree is conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Latin - Scientific Course.

BACHELOR OF SCIENCE.—This degree is conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Scientific Course.

The baccalaureate degree is awarded *summa cum laude* to a student who takes high honors both in general scholarship and in one or more departments; *magna cum laude*, to a student who takes a high honor either in general scholarship or in one or more departments; *cum laude*, to a student who takes an honor either in general scholarship or in one or more departments.

MASTER OF ARTS AND MASTER OF SCIENCE.—The degrees of Master of Arts and Master of Science are conferred in accordance with the following regulations:—

1. The degree of Master of Arts is conferred upon Bachelors of Arts of Wesleyan University, of at least one year's standing, at the satisfactory conclusion of a course of advanced, non - professional study, pursued in residence for a period of not less than one year. This course of study is under the full direction of a Committee of the Faculty on Graduate Instruction, composed of three permanent members with the addition of the instructor in charge of each department in which the candidate pursues work. Evidence of the candidate's proficiency in the approved studies is given by an examination, oral or written, by a thesis or an essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these

methods combined, as the Committee may prescribe. All such tests of proficiency are under the direction of the Committee, and they report to the Faculty proper candidates for the degree.

2. In the case of Bachelors of Arts of other colleges whose course of study is accepted as sufficient by the Committee on Graduate Instruction, or who pass such additional examinations as the Committee prescribes, the degree of Master of Arts is conferred on the conditions prescribed in the case of Bachelors of Arts of Wesleyan University pursuing a course of study in residence.

3. The degree of Master of Arts is also conferred upon Bachelors of Arts of Wesleyan University, of at least three years' standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued *in absentia*, and equivalent in amount to that prescribed in the case of resident graduate students; and in all other particulars the same regulations hold in the case of non-resident as in the case of resident students. The degree is also conferred upon Bachelors of Arts of Wesleyan University, of two years' standing, at the satisfactory conclusion of a course of study pursued *in absentia*, on the conditions above specified, provided that the candidate has spent the two years in resident study in a non-professional department of some other university.

4. The degree of Master of Science is conferred upon Bachelors of Philosophy and Bachelors of Science, whether of this or of other colleges, under the same conditions which govern in the case of the degree of Master of Arts.

5. Bachelors of Philosophy and Bachelors of Science, whether of this or of other colleges, who pass such examinations in Greek and Latin, and in other literary studies, as the Committee on Graduate Instruction prescribes, are admitted to the degree of Master of Arts on the conditions prescribed in the case of Bachelors of Arts.

6. A fee of ten dollars is required from each graduate student upon promotion to the Master's degree.

Communications from prospective graduate students regarding the Master's degree should be addressed, in the first instance, to Professor E. T. Merrill, the secretary of the Committee on Graduate Instruction.

DEGREES CONFERRED, JUNE, 1901.

DEGREES IN COURSE.

The Degree of Bachelor of Arts was Conferred on

JOHN EDWARD ADAMS,	EMMETT WELLS GOULD,
GEORGE ELLSWORTH BISHOP,	LEE FOSTER HARTMAN,
WALLACE SELDEN BOARDMAN,	WALTER NICKERSON HILL,
HERMAN AUGUST BUSCHK,	CLEVELAND ARCHER IVES,
BURTON HOWARD CAMP,	ROY HUMISTON JONES,
FRANKLIN HALSTED CLAPP,	LESTER EDWARD LYNDE,
THOMAS JAMES CLARK, JR.,	BENJAMIN FRANKLIN MEREDITH,
ALFRED SAMUEL CLAYTON,	WILLIAM PERCIVAL OGDEN,
THOMAS SPARKS CLINE,	DUDLEY BALDWIN PALMER,
ALBERT LLOYD COOPER,	WILLIAM CHAUNCEY RICE,
JOHN A DECKER, JR.,	JOHN BROCKWAY RIPPERE,
OSCAR BURDETH EMERSON,	CHARLES HALBERTON SEWARD,
LUTHER HAYWARD FROST,	WALTER RAYMOND TERRY,
ISAAC NEWTON GARMAN,	JAMES HERBERT TUCKLEY,
ALBERT SMITH GORDON,	JOSEPH CLARK WINANS,
ERNEST ALBERT YARROW.	

SUSAN MARY ADAMS,	FREDRIKA VAN BENSCHOTEN,
MARIE ROSALIE VON ESSEN HUBERT.	

The Degree of Bachelor of Philosophy was Conferred on

WILLIAM EDWARD ADAMS,	WALTER J RANDOLPH,
OLON ARTHUR DODDS,	HERBERT HOLDEN SAWYER,
LOUIS HARMAN HITCHLER,	OLON BEECHER SELLECK,
STEPHEN BENJAMIN HOYT, JR.,	CARL CURTIS STICKNEY,
ARTHUR JOHN MEREDITH,	HERBERT COOPER WARD,
ROBERT JAMES MERRIAM,	JOSIAH OLIVER WOLCOTT.

GRACE ALIDA BEEBE,	LEILA ALBERTA FIELD,
ANNIE STRONG BROWN,	MAY ELIZABETH KENNEALLY,
CHRISTABEL MAY COE,	MAY TOMLINSON PALMER,
JULIA MYRA WILCOX.	

The Degree of Bachelor of Science was Conferred on

WALTER MORGAN ANDERSON,	CLYDE ROY DODDS,
WALTER STANLEY BAKER,	EDWIN SWEETSER HUSE,
LUTHER GARDNER COBURN,	RICHARD GRANVILLE POVEY,
HARRIMAN CLEAVELAND DODD,	FRANK PETER SCHEFFER,
FRANK BERTRAM WADE.	

MABELLE WILCOX BARNES,	LENA ZERVIAH NEWTON,
ROBERTA CORSCADEN,	EDITH LADORA RISLEY,
CHARLOTTE MARIA SEABURY.	

The Degree of Master of Science on Examination was Conferred on

ARTHUR WESLEY BROWNE, B. S., 1900. Subjects: Chemistry and Geology. Theses: (1) On the Effect of Vibration upon Matter near the Critical Point. (2) On the Causes of the Climate of the Glacial Period.

FREDERICK WARREN GROVER, B. S. (Massachusetts Institute of Technology, 1899.) Subject: Physics. Thesis: Experimental Determination of the Capacity and Residual Charge of Condensers at Different Temperatures.

GILBERT HAVEN TRAFTON, Ph. B., 1898. Subjects: Biology and Geology. Thesis: Modern Theories of Heredity and their Relation to Evolution.

HONORARY DEGREES.

The Degree of Doctor of Divinity was Conferred on

REV. HINCKLEY GILBERT THOMAS MITCHELL, of the Class of 1873, Professor of Hebrew in the School of Theology, Boston University.

REV. DAVID HOWARD TRIBOU, Senior Chaplain in the United States Navy.

REV. THOMAS BOND WOOD, of the Class of 1864, Lima, Peru.

The Degree of Doctor of Laws was Conferred on

HON. DAVID JOSIAH BREWER, Associate Justice of the Supreme Court of the United States.

HON. CHARLES EMORY SMITH, Postmaster-General of the United States.



PUBLICATIONS.

ALUMNI RECORD.—Through the liberality of Orange Judd, M. A., a Biographical Record of the Alumni of the University was published in 1869. A third edition of this Record, revised and corrected, was issued in June, 1883.

This edition contains not only the record of alumni, revised and corrected to the date of publication, but also a list of all former students not graduates, with their residences, and such other information with reference to them as the most thorough search could obtain. It also includes a bibliographical record, showing all the more important literary and scientific work done by alumni and members of the Faculty. Copies of this edition may be had on application to the librarian, W. J. James. The price of the Record, postage paid, is one dollar.

A fifth edition of the Supplement to the Alumni Record, was published in November, 1901. It contains an alphabetical list of the living graduates, with their honorary and professional degrees, their occupations, their addresses, and their geographical classification. This edition contains for the first time, a list of honorary alumni also, with their addresses, if living, or date of death, if deceased.

Information in regard to changes of address of alumni or in regard to any other facts suitable for future editions of the Record, is earnestly solicited. All who can furnish such information are requested to communicate with Professor F. W. Nicolson.

BULLETIN.—The *Bulletin* was first issued in 1888, and has since been published twice a year (usually in May and November), under the direction of a committee of the Faculty. It contains accounts of trustee and alumni meetings, lists of recent gifts, statements of the most urgent needs of the University, changes in the Faculty and courses of study, department notes, and various other matters of

interest to the alumni and friends of the institution. It is sent to the trustees and alumni, and may be obtained by other friends of the University upon application to the Secretary of the Faculty.

NECROLOGY.—A list of deceased graduates of the University is published annually in the Spring *Bulletin*. All persons who can supply information for future lists, are urgently requested to communicate the same to Professor F. W. Nicolson.

EMPLOYMENT BUREAU.

An employment bureau has been established in the office of the Secretary of the Faculty, for the purpose of securing positions as teachers for graduates of the college, and to provide opportunities for undergraduates to earn money towards paying their college expenses, either by work in Middletown during term time, or by work in Middletown or elsewhere during the summer vacation. Those who wish to avail themselves of the opportunity thus offered are invited to register; and the alumni and friends of the college are urgently requested to inform the Secretary of any vacancy coming to their notice which might be filled by a Wesleyan student or graduate. No fees are charged.

CALENDAR.

1901.

Sept. 26, Thursday—First term began.

Nov. 27-Dec 1, Thanksgiving recess.

Dec. 23, Monday—First term will close.

1902.

CHRISTMAS RECESS.

Jan. 7, Tuesday—Second term will begin.

Jan. 30, Thursday—Day of Prayer for Colleges—a holiday.

Feb. 3-15, Mid-year examination.

Feb. 22, Saturday—Washington's Birthday—a holiday.

Mar. 26, Wednesday—Second term will close.

SPRING RECESS.

April 1, Tuesday—Third term will begin.

April 5, Saturday—Last day for presenting Junior Exhibition essays.

April 7, Monday—Last day for presenting Olin Prize essays.

April 7, Monday—Last day for presenting applications for preliminary and special honors.

April 7, Monday—Last day for presenting applications for special spring examinations.

April 17, Thursday—Junior Exhibition.

May 19, Monday—Last day for presenting Joseph D. Weeks Prize essays.

May 29, Thursday—Prize Debate.

May 30, Friday—Memorial Day—a holiday.

June 2, Monday—Senior examination will begin.

June 9, Monday—Annual examination will begin.

June 14, Saturday—Last day for presenting special honor theses, and for special honor examinations.

June 17, Tuesday—Last day for presenting Rich Prize essays.

June 20, Friday—Prize Declamations.

June 22, Sunday morning—Baccalaureate Sermon.

1902.

- June 22, Sunday evening—University Sermon.
June 23, Monday morning—Announcement of award of prizes and of preliminary honors.
June 23, Monday afternoon—Class Day.
June 23, Monday evening—Meeting of the Board of Trustees.
June 24, Tuesday morning—Business meeting of the Phi Beta Kappa Society.
June 24, Tuesday morning—Business meeting of the Alumni Association.
June 24, Tuesday afternoon—Reunion of classes of 1852, '77, '87, '92, '95, '99.
June 24, Tuesday afternoon—Social receptions by the college fraternities.
June 25, Wednesday—COMMENCEMENT.
June 26, Thursday—Examination of candidates for admission will begin.

VACATION OF THIRTEEN WEEKS.

- Sept. 23, Tuesday—Special examination for students deficient at the annual examination.
Sept. 24, Wednesday—Examination of candidates for admission will begin.
Sept. 25, Thursday—First term will begin.

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WESLEYAN UNIVERSITY.

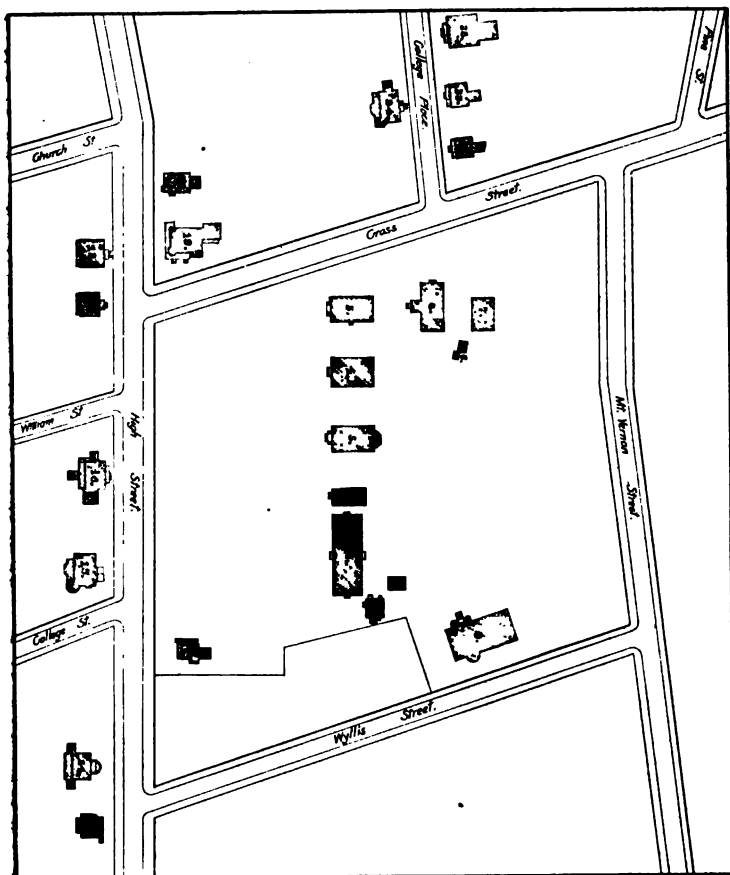
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Key to Plan of Wesleyan University Campus.

- | | |
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| 1. NORTH COLLEGE. | 14. Δ. K. E. CLUB HOUSE. |
| 2. SOUTH COLLEGE. | 15. Ψ. Υ. CLUB HOUSE. |
| 3. MEMORIAL CHAPEL. | 16. WOMEN'S HALL. |
| 4. RICH HALL (Library). | 17. PROFESSOR BRADLEY'S HOUSE. |
| 5. JUDD HALL. | 18. ANNEX TO WOMEN'S HALL. |
| 6. OBSERVATORY HALL. | 19. Α. Δ. Φ. CLUB HOUSE. |
| 7. CRYOGENIC LABORATORY. | 20. PROFESSOR VAN BENSCHOTEN'S HOUSE. |
| 8. TRANSIT HOUSE. | 21. PROFESSOR RICE'S HOUSE. |
| 9. FAVERWEATHER GYMNASIUM. | 22. PROFESSOR MERRILL'S HOUSE. |
| 10. BOILER HOUSE. | 23. Φ. P. CLUB HOUSE. |
| 11. ELECTRICAL LABORATORY. | 24. ECLECTIC CLUB HOUSE. |
| 12. PRESIDENT'S HOUSE. | |
| 13. PROFESSOR WINCHESTER'S HOUSE. | |



PLAN OF WESLEYAN UNIVERSITY CAMPUS.

CALENDAR, 1902

1903

JANUARY

S - 5 12 19 26
M - 6 13 20 27
T - 7 14 21 28
W 1 8 15 22 29
T 2 9 16 23 30
F 3 10 17 24 31
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MAY

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S 3 10 17 24 31

SEPTEMBER

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F 5 12 19 26 X
S 6 13 20 27 X

JANUARY

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F 2 9 16 23 30
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FEBRUARY

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W - 5 12 19 26
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F - 7 14 21 28
S 1 8 15 22 X

JUNE

S 1 8 15 22 29
M 2 9 16 23 30
T 3 10 17 24 X
W 4 11 18 25 X
T 5 12 19 26 X
F 6 13 20 27 X
S 7 14 21 28 X

OCTOBER

S - 5 12 19 26
M - 6 13 20 27
T - 7 14 21 28
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F 3 10 17 24 31
S 4 11 18 25 X

FEBRUARY

S 1 8 15 22
M 2 9 16 23
T 3 10 17 24
W 4 11 18 25
T 5 12 19 26
F 6 13 20 27
S 7 14 21 28

MARCH

S - 2 9 16 23 30
M - 3 10 17 24 31
T - 4 11 18 25 X
W - 5 12 19 26 X
T - 6 13 20 27 X
F - 7 14 21 28 X
S 1 8 15 22 29 X

JULY

S - 6 13 20 27
M - 7 14 21 28
T 1 8 15 22 29
W 2 9 16 23 30
T 3 10 17 24 31
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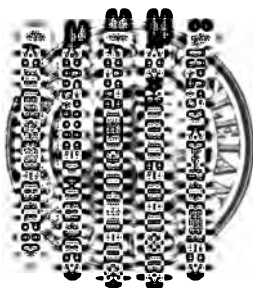
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Clifford Watson Hall,	<i>New Canaan.</i>	<i>B. Θ. Π. House.</i>
† Wilbor Butler Harlow,	<i>Brooklyn, N. Y.</i>	<i>Δ. K. E. House.</i>
Clarence R. Hickok,	<i>Wilkes-Barre, Pa.</i>	<i>25 N. C.</i>
§ Ernest George Nosworthy Holmes,	<i>Wilkes-Barre, Pa.</i>	<i>15 Foss House.</i>
§ Samuel Foss Holmes,	<i>Kents Hill, Me.</i>	<i>51 Wyllys Ave.</i>
† Merritt Judson Hopkins,	<i>Miller Place, N. Y.</i>	<i>Δ. T. Δ. House.</i>
Roy Smith Hurd,	<i>Westminster Depot, Mass.</i>	<i>B. Θ. Π. House.</i>
§ Olin Ingraham,	<i>Brooklyn, N. Y.</i>	<i>178 Church St.</i>
Edwin Chester Jones,	<i>Southport.</i>	<i>Y. Y. House.</i>
Ralph Welles Keeler,	<i>Windsor.</i>	<i>B. Θ. Π. House.</i>
† Walter Palmer Keeler,	<i>Malone, N. Y.</i>	<i>Δ. K. E. House.</i>
† Wilbur Carlton Knowles,	<i>Washington.</i>	<i>9 Foss House.</i>

NAMES.	RESIDENCES.	ROOMS.
Howard Fifield Legg,	<i>Worcester, Mass.</i>	<i>Δ. K. E. House.</i>
§ Patrick Joseph McDonnell, Jr.,	<i>Archbald, Pa.</i>	<i>250 High St.</i>
§ Edgar MacNaughten,	<i>New York, N. Y.</i>	<i>246 High St.</i>
† Theodore Manley Melden,	<i>South Atlanta, Ga.</i>	<i>13 Cross St.</i>
† George Merriam Newell,	<i>Uxbridge, Mass.</i>	<i>Δ. T. Δ. House.</i>
Paul Nixon,	<i>Braintree, Mass.</i>	<i>246 High St.</i>
Howard Stimson Packard,	<i>Springfield, Mass.</i>	<i>Δ. K. E. House.</i>
§ Harold Bradford Raymond,	<i>Middletown.</i>	<i>311 High St.</i>
Samuel Talcott Reynolds,	<i>Brooklyn, N. Y.</i>	<i>246 High St.</i>
Howard, MacMillan Richard,	<i>New Haven.</i>	<i>Ψ. Y. House.</i>
† George Rocker,	<i>Brooklyn, N. Y.</i>	<i>B. Θ. Π. House.</i>
Moses Stuart Rogers,	<i>South Manchester.</i>	<i>44 N. C.</i>
† John Tanner Russell,	<i>North Granville, N. Y.</i>	<i>Δ. K. E. House.</i>
§ Stetson Kilbourne Ryan,	<i>Middletown.</i>	<i>241 Court St.</i>
Ernest Walter Schmidt,	<i>South Manchester.</i>	<i>28 N. C.</i>
John Ferdinand Schneider,	<i>Scranton, Pa.</i>	<i>X. Ψ. Lodge.</i>
† Edwin Henry Schutt,	<i>New York, N. Y.</i>	<i>15 Foss House.</i>
§ Henry Gustav Shailer,	<i>Middletown.</i>	<i>70 Loveland St.</i>
Tracy Smith,	<i>Waterbury.</i>	<i>Δ. K. E. House.</i>
§ Charles Akin Stone,	<i>Troy, N. Y.</i>	<i>Ψ. Y. House.</i>
Edward Ross Tracy,	<i>Syracuse, N. Y.</i>	<i>43 N. C.</i>
§ Warren Sutcliffe Wallace,	<i>Montclair, N. J.</i>	<i>246 High St.</i>
Henry Adelbert White,	<i>Pompey Centre, N. Y.</i>	<i>Δ. T. Δ. House.</i>
David Day Whitney,	<i>East Brookfield, Vt.</i>	<i>Δ. T. Δ. House.</i>
Harold Edmund Wilson,	<i>Penacook, N. H.</i>	<i>Ψ. Y. House.</i>
§ James Elijah Wilson,	<i>Middletown.</i>	<i>39 N. C.</i>
Watson Woodruff,	<i>Berlin.</i>	<i>Δ. T. Δ. House.</i>
§ Helen Veronica Bransfield,	<i>Portland.</i>	<i>274 High St.</i>
§ Amy Eliza Davis,	<i>Middletown.</i>	<i>299 College St.</i>
† Annie Fisher,	<i>Hartford.</i>	<i>239 College St.</i>
§ Helen Louise Gilbert,	<i>Middletown.</i>	<i>239 College St.</i>
Ethel Gertrude Reynolds,	<i>Middletown.</i>	<i>246 College St.</i>
Mary Elizabeth Smith,	<i>Portland.</i>	<i>274 High St.</i>
Marguerite van Benschoten,	<i>Upper Montclair, N. J.</i>	<i>274 High St.</i>

SOPHOMORE CLASS.

NAMES.	RESIDENCES.	ROOMS.
Henry Dana Abbott,	<i>New Haven.</i>	<i>10 Foss House.</i>
Hanford Curtis Adams,	<i>Millbrook, N. Y.</i>	<i>4 N. C.</i>
§ Henry Foster Adams,	<i>Clifton Springs, N. Y.</i>	<i>53 N. C.</i>
Walter Sinclair Adams,	<i>Salem, Mass.</i>	<i>17 Cross St.</i>
† Ames Scribner Albro,	<i>Orchard Lake, Mich.</i>	<i>Δ. K. E. House.</i>
§ James Sidney Ames,	<i>Binghamton, N. Y.</i>	<i>250 High St.</i>
Edwin Lathrop Baker,	<i>Pittsburgh, Pa.</i>	<i>282 William St.</i>
Frank Chester Becker,	<i>Plymouth, Pa.</i>	<i>246 High St.</i>
§ Allen Reynolds Bishop,	<i>Baltimore, Md.</i>	<i>37 N. C.</i>
§ John Franklin Boyd,	<i>Wilmington, Vt.</i>	<i>27 N. C.</i>
Grow Stanley Brown,	<i>Canton, Pa.</i>	<i>52 N. C.</i>
Harry Winter Bugbee,	<i>Monson, Mass.</i>	<i>X. Y. Lodge.</i>
§ Thomas Ward Burnett,	<i>Summit, N. Y.</i>	<i>X. Y. Lodge.</i>
§ James Edward Butler,	<i>Sackett's Harbor, N. Y.</i>	<i>Chafee House.</i>
§ Ernest Clifford Chichester,	<i>Patchogue, N. Y.</i>	<i>B. Θ. Π. House.</i>
† Edward Fratus Congdon,	<i>New Haven.</i>	<i>11 N. C.</i>
† Minn S Cornell, Jr.,	<i>Brooklyn, N. Y.</i>	<i>A. Δ. Φ. House.</i>
Clarence Dennys Coughlin,	<i>Wilkes-Barre, Pa.</i>	<i>B. Θ. Π. House.</i>
§ John McIntyre Davis,	<i>Brooklyn, N. Y.</i>	<i>250 High St.</i>
§ John Bates Eyster,	<i>York, Pa.</i>	<i>27 N. C.</i>
§ Nathan Hayes Fairchild,	<i>Syracuse, N. Y.</i>	<i>250 High St.</i>
Howard Brigham Field,	<i>East Hampton.</i>	<i>54 N. C.</i>
Herbert James Flower,	<i>Passaic, N. J.</i>	<i>38 N. C.</i>
† Ralph John Folsome,	<i>East Livermore, Me.</i>	<i>10 Foss House.</i>
§ Daniel Roy Freeman,	<i>Ontario, Cal.</i>	<i>Δ. K. E. House.</i>
Clarence Brainerd Guy,	<i>Middletown.</i>	<i>South Farms.</i>
Stewart Freeman Hancock,	<i>Syracuse, N. Y.</i>	<i>250 High St.</i>
† Samuel Ward Harris, Jr.,	<i>Fitchburg, Mass.</i>	<i>Y. Y. House.</i>
William Mortimer Heisler,	<i>Philadelphia, Pa.</i>	<i>161 High St.</i>
Henry Alfred Holmes,	<i>Kents Hill, Me.</i>	<i>51 Wyllys Ave.</i>
§ Donald Gilbert Hoyt,	<i>Valley Falls, N. Y.</i>	<i>B. Θ. Π. House.</i>
§ Harold Wardwell Hoyt,	<i>Stamford.</i>	<i>Δ. K. E. House.</i>
Samuel William Jennings,	<i>York, Pa.</i>	<i>246 High St.</i>

NAMES.	RESIDENCES.	ROOMS.
§ Howard Emery Ambler Jones,	<i>Middletown.</i>	<i>287 College St.</i>
§ Howard Wilson Kendall,	<i>Holyoke, Mass.</i>	<i>Δ. T. Δ. House.</i>
§ Martin Hobart Knapp,	<i>Syracuse, N. Y.</i>	<i>57 N. C.</i>
Oliver Josiah Krause,	<i>Salisbury, Md.</i>	<i>14 Foss House.</i>
Ralph Wendell Leighton,	<i>Portland, Me.</i>	<i>6 N. C.</i>
§ Ralph Edward Martin,	<i>Warren, Mass.</i>	<i>Δ. K. E. House.</i>
§ Rufus Wellington Mathewson,	<i>Durham.</i>	<i>Durham.</i>
James Irving Merritt,	<i>Saratoga Springs, N. Y.</i>	<i>1 Foss House.</i>
Ralph Hooker Mix,	<i>Stamford.</i>	<i>B. Θ. Π. House.</i>
§ Julian Cephas Morgan,	<i>Stamford.</i>	<i>B. Θ. Π. House.</i>
Victor Caryl Myers,	<i>Buskirk, N. Y.</i>	<i>Δ. K. E. House.</i>
George Avery Neeld,	<i>Middletown.</i>	<i>246 High St.</i>
George Bradford Neumann,	<i>New Britain.</i>	<i>32 N. C.</i>
† John Slayback Olney,	<i>New York, N. Y.</i>	<i>59 N. C.</i>
† Hermon Frederick Onthrup,	<i>Middletown.</i>	<i>44 N. C.</i>
Charles John Peterson,	<i>Worcester, Mass.</i>	<i>13 N. C.</i>
§ Edward Randall Plumb,	<i>Syracuse, N. Y.</i>	<i>250 High St.</i>
§ John Arthur Randall,	<i>Portland, Me.</i>	<i>B. Θ. Π. House.</i>
George Greenwood Reynolds, 2d,	<i>Brooklyn, N. Y.</i>	<i>178 Church St.</i>
† Horace Jacobs Rice,	<i>Springfield, Mass.</i>	<i>246 High St.</i>
§ Ralph Bingham Shipman,	<i>Ipswich, Mass.</i>	<i>6 N. C.</i>
§ Hoyt Post Simmons,	<i>Brooklyn, N. Y.</i>	<i>Ψ. Y. House.</i>
§ Ray Oscar Stephens,	<i>Clifton Springs, N. Y.</i>	<i>53 N. C.</i>
† James Pomeroy Stow, Jr.,	<i>Middletown.</i>	<i>179 College St.</i>
† Francis Lambert Thornberry,	<i>Bridgeport.</i>	<i>B. Θ. Π. House.</i>
George Edmunds Tolman,	<i>Danmemora, N. Y.</i>	<i>Δ. K. E. House.</i>
§ Clarence Howard Tryon,	<i>Meriden.</i>	<i>B. Θ. Π. House.</i>
Burr de Forest Vail,	<i>Montdale, Pa.</i>	<i>A. Δ. Φ. House.</i>
† Henderson Edmund Van Surdam,	<i>Hoosick Falls, N. Y.</i>	<i>Δ. K. E. House.</i>
Thomas Alexander West,	<i>Saco, Me.</i>	<i>11 N. C.</i>
† Howard Leighton Winslow,	<i>Woodford's, Me.</i>	<i>14 Foss House.</i>
James Maxon Yard,	<i>Farmingdale, N. J.</i>	<i>51 N. C.</i>
§ Ruth Burr Bonfoey,	<i>Middletown.</i>	<i>181 Court St.</i>
§ Ruth Dean,	<i>Middletown.</i>	<i>Newfield St.</i>
† Daisy Helena Lohr,	<i>Stamford.</i>	<i>274 High St.</i>
† Maude Stuart Newell,	<i>Middletown.</i>	<i>61 South Main St.</i>
Clara Frances Sykes,	<i>Whitinsville, Mass.</i>	<i>274 High St.</i>

FRESHMAN CLASS.

NAMES.	RESIDENCES.	ROOMS.
† Benjamin Lewis Aldridge,	<i>Yonkers, N. Y.</i>	64 N. C.
Arthur Ray Anderson,	<i>Mt. Vernon, N. Y.</i>	61 N. C.
§ Harold De Forest Arnold,	<i>Central Village. 269 William St.</i>	
§ Charles Woodard Atwater,	<i>Middletown.</i>	33 N. C.
§ Russell Bailey,	<i>Bound Brook, N. J.</i>	12 N. C.
§ Wilbur Stone Beeman,	<i>West Brookfield, Mass.</i>	49 N. C.
William Ebenezer Bell,	<i>Hamilton, Bermuda. 6 Foss House.</i>	
Earl Maltby Benson,	<i>West Winfield, N. Y. B. O. II. House.</i>	
Homer Schoenfelt Biddle,	<i>Loysburg, Pa.</i>	16 N. C.
Robert Merrill Bisbee,	<i>Milford, Mass.</i>	31 N. C.
§ George Imlay Bodine, Jr.,	<i>Philadelphia, Pa.</i>	† Y. House.
† Raymond Wolcott Bristol,	<i>Washington, D. C.</i>	37 N. C.
Roger George Caldwell, Jr.,	<i>Parkersburg, W. Va.</i>	61 N. C.
Samuel Curtis Campaigne,	<i>Troy, N. Y.</i>	17 N. C.
Joseph Paisley Carman,	<i>Philadelphia, Pa. 313 William St.</i>	
Theron Alvord Clements,	<i>Cazenovia, N. Y.</i>	52 N. C.
† Alfred Preston Cobb,	<i>Providence, R. I.</i>	10 N. C.
† Ralph Martin Cole,	<i>Tottenville, N. Y.</i>	48 N. C.
Jesse Vancleft Cooper,	<i>Montrose, Pa. 88 Wyllys Ave.</i>	
Thomas William Coote,	<i>Wilbraham, Mass. 311 High St.</i>	
§ Howard Albert Corey,	<i>South Portland, Me. 58 Wyllys Ave.</i>	
† Horace Clyde Cushman,	<i>Poultney, Vt.</i>	43 N. C.
Willis Brooks Davis,	<i>Middletown. 299 College St.</i>	
§ Arthur Kent Dearborn,	<i>Middletown. 15 Brainerd Ave.</i>	
Lester Francis Deming,	<i>Berlin.</i>	14 N. C.
Robert Wilson Forbes,	<i>Dalton, Mass.</i>	62 N. C.
§ Francis Burnet Frazee,	<i>Newark, N. J.</i>	18 N. C.
§ Ward Percy Gammons,	<i>Methuen, Mass. 13 Cross St.</i>	
† Norman Scott Garrison,	<i>Paterson, N. J. 250 High St.</i>	
§ Gordon Gray Gatch,	<i>Washington, D. C.</i>	8 N. C.
§ Edward Goldbacker,	<i>New York, N. Y.</i>	4 N. C.
† Manuel Henry Gonsalves,	<i>Acushnet, Mass. 1 Foss House.</i>	
† George Neiler Haasz,	<i>Philadelphia, Pa. 161 High St.</i>	

NAMES.	RESIDENCES.	ROOMS.
§ George Henry Hamilton,	<i>West Brattleboro, Vt.</i>	<i>11 Foss House.</i>
Clarence Eugene Hancock,	<i>Syracuse, N. Y.</i>	50 N. C.
† Arthur James Hanlon,	<i>Canaan.</i>	55 N. C.
Warren Lucius Harlow,	<i>Worcester, Mass.</i>	<i>12 Foss House.</i>
† Marston Haviland,	<i>Brooklyn, N. Y.</i>	62 N. C.
Joseph Willis Hawley,	<i>Dorranclon, Pa.</i>	<i>88 Wyllys Ave.</i>
George Edwin Heath,	<i>Everett, Mass.</i>	47 N. C.
§ Ira Prouty Ingraham,	<i>Guilford Centre, Vt.</i>	<i>11 Foss House.</i>
Lon Roswell Jillson,	<i>Hartford.</i>	B. O. II. House.
§ William Armour Johnston, Jr.,	<i>Prince's Bay, N. Y.</i>	48 N. C.
§ Olin Bradley Kilbourn,	<i>Southington.</i>	<i>16 Loveland St.</i>
Charles Lowden Knight,	<i>Bridgeboro, N. J.</i>	63 N. C.
† Robert Louis Lafferrander,	<i>Sayville, N. Y.</i>	31 N. C.
† William Henry Long,	<i>Sayville, N. Y.</i>	15 N. C.
† Laurence Free McDonald,	<i>Parkton, Md.</i>	<i>13 Foss House.</i>
Albert Mann, Jr.,	<i>Syracuse, N. Y.</i>	64 N. C.
Ellis Hoagland Martin,	<i>Newark, N. J.</i>	18 N. C.
† Harold Clifton Martin,	<i>Warren, Mass.</i>	41 N. C.
† Arthur James Monroe,	<i>Brattleboro, Vt.</i>	15 N. C.
William Gordon Murphy, Jr.,	<i>Brooklyn, N. Y.,</i>	46 N. C.
§ Chester Newton Myers,	<i>Valley Falls, N. Y.</i>	<i>313 William St.</i>
† David Roy Nelson,	<i>Carbon Cliff, Ill.</i>	<i>15 Cross St.</i>
† Oliver Taylor Noon,	<i>Everett, Mass.</i>	<i>6 Foss House.</i>
§ Arthur Elliott Paterson,	<i>Middletown.</i>	<i>110 Main St.</i>
Nicholas Elias Peieff,	<i>Jacoruda, Macedonia.</i>	<i>12 Foss House.</i>
Thomas Merritt Pendexter,	<i>Amesbury, Mass.</i>	B. O. II. House.
Newton Manley Perrins,	<i>Seymour.</i>	20 N. C.
William Northcote Phillips,	<i>Frederick, Md.</i>	<i>313 William St.</i>
† Charles Frank Phipps,	<i>New Dorchester, Mass.</i>	30 N. C.
Henry Bordman Powell, Jr.,	<i>Clearfield, Pa.</i>	55 N. C.
§ Ralph Pratt Rippere,	<i>Brooklyn, N. Y.</i>	X. Y. Lodge.
Frank Eggleston Robbins,	<i>Westfield, Mass.</i>	49 N. C.
Guy Wright Rogers,	<i>Forksville, Pa.</i>	54 N. C.
† Charles Augustus Russell,	<i>Norwood, Mass.</i>	<i>58 Wyllys Ave.</i>
† Seth William Scofield,	<i>Stamford.</i>	35 N. C.
§ Arthur Seybolt,	<i>Oneonta, N. Y.</i>	X. Y. Lodge.
Jesse Ernest Shaw,	<i>East Longmeadow, Mass.</i>	13 N. C.
George Wiley Sherburn,	<i>St. Johnsbury, Vt.</i>	19 N. C.

NAMES.	RESIDENCES.	ROOMS.
† Alexander Chilson Stevens,	<i>White Plains, N. Y.</i>	<i>297 College St.</i>
† Reginald Heber Stow,	<i>Cromwell.</i>	12 N. C.
§ Ferdinand Richard Streber,	<i>Honduras, C. A.</i>	10 N. C.
Frank Harold Syrett,	<i>Montclair, N. J.</i>	17 N. C.
James Martin Talbot,	<i>Newark, N. J.</i>	29 N. C.
† Elwood Idell Terry,	<i>Claverack, N. Y.</i>	<i>313 William St.</i>
Charles Mabbett Travis,	<i>Brooklyn, N. Y.</i>	46 N. C.
George Wood Merwin Vinal,	<i>Washington, D. C.</i>	<i>Δ. K. E. House.</i>
Frederick Franklin Voorhees,	<i>Farmingdale, N. Y.</i>	51 N. C.
† Harry Paul Voss,	<i>New York, N. Y.</i>	14 N. C.
Hollis Bertram Wade,	<i>New York, N. Y.</i>	47 N. C.
† Clifford Le Grande Waite,	<i>Middletown.</i>	<i>15 Crescent St.</i>
Ezra Ralph Walker,	<i>Chelsea, Vt.</i>	<i>269 William St.</i>
Charles Russell Waterbury,	<i>Stamford.</i>	35 N. C.
† Garnsey Weeks,	<i>New York, N. Y.</i>	30 N. C.
§ Lester Reuben Weeks,	<i>Syracuse, N. Y.</i>	50 N. C.
† James William Weld,	<i>Saranac Lake, N. Y.</i>	19 N. C.
† Ernest Burr Wheeler,	<i>New Britain.</i>	32 N. C.
§ James Augustus Wilson,	<i>Calhoun, Ala.</i>	<i>2 Foss House.</i>
Frederick Warren Wright,	<i>Jamestown, N. Y.</i>	45 N. C.
§ Alice Gertrude Cooke,	<i>Middletown.</i>	<i>43 Park Place.</i>
Margaret Elizabeth Donahoe,	<i>Middletown.</i>	<i>350 Washington St.</i>
§ Helen Katherine Fletcher,	<i>Middletown.</i>	<i>94½ Court St.</i>
§ Matilda Aurora Hanson,	<i>Perth Amboy, N. J.</i>	<i>274 High St.</i>
§ Mary E Hartwell,	<i>Rochelle Park, N. J.</i>	<i>274 High St.</i>
Faye Mildred Keene,	<i>Waldoboro, Me.</i>	<i>274 High St.</i>
§ Jessie Louise Keene,	<i>Waldoboro, Me.</i>	<i>274 High St.</i>
§ Clara Ella Lang,	<i>Hartford.</i>	<i>274 High St.</i>
§ Katherine Frances Lucey,	<i>Middletown.</i>	<i>Durant District.</i>
§ Edith Weekes Say,	<i>Waterbury.</i>	<i>256 William St.</i>
§ Ella Pardee Warner,	<i>Highwood.</i>	<i>274 High St.</i>
§ Florence Winter,	<i>Middlefield.</i>	<i>274 High St.</i>

SPECIAL STUDENTS.

NAMES.	RESIDENCES.	ROOMS.
Arthur Sylvester Douglass,	<i>Auburndale, Mass.</i>	29 N. C.
Hugh Montgomery,	<i>West Medford, Mass.</i>	A. Δ. Φ. House.
Charles Harvey Northam, Jr.,	<i>Hartford.</i>	250 High St.
Ernest Melville Swett,	<i>South Paris, Me.</i>	246 High St.
Charlotte Robinson Manning,	<i>Meriden.</i>	274 High St.
Emily Miller Pierson,	<i>Cromwell.</i>	Cromwell.

SUMMARY.

	MEN.	WOMEN.	TOTAL.
GRADUATE STUDENTS, - - - - -	6	4	10
SENIORS, - - - - -	60	7	67
JUNIORS, - - - - -	59	7	66
SOPHOMORES, - - - - -	65	5	70
FRESHMEN, - - - - -	91	12	103
SPECIAL STUDENTS, - - - - -	4	2	6
TOTAL, - - - - -	285	37	322

ABBREVIATIONS.

N. C., - - - - -	North College.
S. C., - - - - -	South College.
O. H., - - - - -	Observatory Hall.
J. H., - - - - -	Judd Hall.
§ - - - - -	Latin-Scientific Course.
† - - - - -	Scientific Course.

GENERAL STATEMENT.

COURSES OF STUDY.—The College presents to its undergraduate students the option of three parallel courses of study, each extending through four years, named respectively the Classical Course, the Latin-Scientific Course, and the Scientific Course.

In the Classical Course, the study of Latin and Greek forms a large part of the required work of the first year. In the Latin-Scientific Course, Greek is omitted, and, in the Scientific Course, both Greek and Latin are omitted, in order to give more extended opportunity for the study of modern languages, science, and literature.

REQUIRED AND ELECTIVE STUDIES.—In each of the foregoing courses, nearly all the studies of the first year are required. In the three remaining years, the amount of required work is progressively diminished, the student being allowed to complete his quota by selecting from a wide range of elective studies. He is expected, however, to regulate his choice so that his electives will together form an harmonious and symmetrical course of study; and in no case is a student allowed to select a study which he is not, in the judgment of his instructors, qualified to pursue with advantage.

SPECIAL COURSES.—Students who do not desire to complete any one of the foregoing courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood that this provision is intended for the benefit, not of those students who are incompetent to take one of the regular courses, but of those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended

courses of study in particular departments. Such special students will be expected to attend all exercises assigned them, and will be subject to all the general rules of the college.

GRADUATE STUDIES.—Extended instruction is given to those who wish to pursue graduate courses of study in any of the departments. Further information concerning such graduate courses is given in the reports of the several departments on Courses of Instruction, and also in connection with the statement of conditions for the degrees of Master of Arts and Master of Science.



TERMS OF ADMISSION.

CLASSICAL COURSE.*

Candidates for admission to the Classical Course are examined in the following subjects:—

- LATIN.—1. Latin grammar, including prosody.
2. Caesar,—Gallic War, books I.–IV.
3. Cicero,—the four orations against Catiline, and those for Archias and for the Manilian Law.
4. Vergil,—Æneid, books I.–VI., and Eclogues.
5. Translation at sight into English of passages of Latin, both prose and poetry, of average difficulty.
6. Translation into Latin of simple English sentences and of easy narrative passages based on the prose authors read.

With the passages set under headings 5 and 6, a vocabulary of the less common words is supplied.

In place of the requirements specified under headings 2, 3, and 4, equivalent readings will be accepted, but, in general, prose will not be accepted instead of poetry, nor *vice versa*.

The Roman system of pronunciation is used in all the Latin work of the college course, and it is expected that applicants for admission will be well versed in it. They should also be well drilled in the observance of the laws of quantity in oral reading, especially in Vergil and Ovid.

GREEK.—1. Greek grammar, including prosody,—Hadley-Allen's or Goodwin's.

2. Xenophon,—Anabasis, books I.–IV.
3. Homer,—Iliad, books I.–III.
4. Translation at sight of one or more passages from Xenophon.
5. Translation into Greek of easy narrative passages based on the required books of the Anabasis.

* For announcement of prize for excellence in the studies preparatory to admission, see "Ayres Prize."

ANCIENT HISTORY AND GEOGRAPHY.—1. History of Rome to the death of Marcus Aurelius.

2. History of Greece to the capture of Corinth, 146 B. C.

3. Ancient geography.

The following books are recommended as the basis of instruction in ancient history and geography:—

1. Botsford's History of Rome.

2. Botsford's History of Greece.

3. Tozer's Primer of Ancient Geography.

Familiarity with map-drawing is also especially desirable.

MATHEMATICS.—1. Algebra,—Fundamental operations, factors, common divisors and multiples, fractions, negative quantities and the interpretation of negative results, powers and roots, the binomial theorem for positive integral exponents, radicals, equations of the first and second degrees with one or more unknown quantities, putting problems into equations, ratios and proportions, arithmetical and geometrical progressions.

2. Plane geometry,—Demonstrations, constructions, and solutions of numerical problems.

ENGLISH.—1. *Reading and Practice.* A limited number of books are assigned for reading. The candidate is required to present evidence of a general knowledge of the subject-matter of these books, and to answer simple questions on the lives of their authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and calls for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present an exercise book, properly certified to by his instructor, containing compositions or other written work done in connection with the reading of the books. In preparation for this part of the requirement, it is important that the candidate shall have been instructed in the fundamental principles of rhetoric.

The books set for this part of the examination will be:—

1903, 1904, and 1905—Shakspeare's Merchant of Venice and Julius Caesar; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's Vicar of Wakefield; Coleridge's Ancient Mariner; Scott's Ivanhoe; Carlyle's Essay on Burns; Tennyson's Princess; Lowell's Vision of Sir Launfal; George Eliot's Silas Marner.

2. *Study and Practice.* A smaller number of books are assigned for more careful study. The examination upon these books covers subject-matter, form, and structure, and also tests the candidate's ability to express his knowledge with clearness and accuracy. In addition, the candidate may be required to answer questions involving the essentials of English grammar, and questions on the leading facts in those periods of English literary history to which the prescribed works belong.

The books set for this part of the examination will be:—

1903, 1904, and 1905—Shakspeare's Macbeth; Milton's Lycidas, Comus, L'Allegro, and Il Penseroso; Burke's Speech on Conciliation with America; Macaulay's Essays on Milton and on Addison.

NOTE.—No candidate will be accepted in English whose work is notably defective in point of spelling, punctuation, idiom, or division into paragraphs.

LATIN-SCIENTIFIC COURSE.

Candidates for admission to the Latin-Scientific Course are examined in the following subjects:—

LATIN.—Same requirements as for the Classical Course.

ANCIENT HISTORY AND GEOGRAPHY.—Same requirements as for the Classical Course, including Greek history and geography.

MATHEMATICS.—Same requirements as for the Classical Course.

ENGLISH.—Same requirements as for the Classical Course.

Four additional courses, to be selected from the following list (provided that at least one course in modern languages must be selected):—

1. ELEMENTARY FRENCH (counting as two courses).—Such a knowledge of the language is required as may be obtained by the reading of at least 400 pages, part of which should be read at sight.

The examination consists of the translation at sight into English of easy passages of French, elementary grammatical questions, and the translation of simple English sentences into French. To meet this requirement two years' work will generally be necessary.

2. **ELEMENTARY GERMAN** (counting^g as two courses).—Such a knowledge of the language is required as may be obtained by the reading of at least 300 pages, part of which should be read at sight. The examination consists of the translation at sight into English of easy passages of German, elementary grammatical questions, and the translation of simple English sentences into German. To meet this requirement two years' work will generally be necessary.

3. **ADVANCED FRENCH**.—The requirement includes the reading of not less than 600 additional pages of French (including at least two works of a dramatic character), and regular practice in writing and speaking French. At least one additional year of study will be necessary to meet this requirement.

4. **ADVANCED GERMAN**.—The requirement includes the reading of at least 300 additional pages of German (not more than half of which should be fiction), and regular practice in writing and speaking German. At least one additional year of study will be necessary to meet this requirement.

5. **ADVANCED MATHEMATICS** (counting as two courses).—(1) Solid geometry. (2) Plane trigonometry, with the use of logarithmic and trigonometric tables. (3) Analytical geometry,—the straight line, the circle, and elementary properties of the conic sections.

6. **PHYSICAL GEOGRAPHY AND BOTANY**.—(1) In physical geography, such a knowledge of the subject is required as may be gained from the study of Geikie's *Elementary Lessons in Physical Geography*, Tarr's *Elementary Physical Geography*, Davis and Snyder's *Physical Geography*, Hinman's *Eclectic Physical Geography*, Dryer's *Lessons in Physical Geography*, or Gilbert and Brigham's *Introduction to Physical Geography*.

(2) In botany, the candidate must show such a knowledge of the subject as may be gained from either (1) the study of morphological and structural botany, as included in the more recent elementary botanical text-books of Spaulding or Bergen; or (2) the study of Gray's *Lessons in Botany*, accompanied by analysis and description of flowers.

7. PHYSICS.—(1) Such a knowledge of the subject is required as may be gained from Carhart and Chute's Elements of Physics, Gage's Elements of Physics, Avery's School Physics, Wentworth and Hill's Text-book of Physics, or Hoadley's Brief Course in Physics.

(2) The candidate must also have performed a series of at least thirty experiments *involving careful measurements*, in addition to any qualitative or very simple quantitative experiments he may have performed, and must present his original note-book, containing full records of the experiments, and certified to by his instructor. Such experiments as the exercises in Hall and Bergen's Text-book of Physics, the experiments in Chute's Physical Laboratory Manual, or the quantitative experiments in Stone's Experimental Physics, will be considered satisfactory.

8. CHEMISTRY.—(1) Such a knowledge of the subject is required as may be gained from Storer and Lindsay's Manual of Chemistry (omitting pp. 230-286), or from Remsen's Chemistry, Elementary Course.

(2) The candidate must also have performed a series of at least fifty experiments, and must present his original note-book, containing records of the processes and results of the experiments, and certified to by his instructor.

9. HISTORY OF ENGLAND AND OF THE UNITED STATES.—Such a knowledge of the subject is required as may be gained from Montgomery's Leading Facts of English History, and Johnston's History of the United States for Schools or Montgomery's Student's American History.

SCIENTIFIC COURSE.

Candidates for admission to the Scientific Course are examined in the following subjects:—

MATHEMATICS.—Same requirements as for the Classical Course.

ENGLISH.—Same requirements as for the Classical Course.

HISTORY OF ENGLAND AND OF THE UNITED STATES, as specified above.

Eight additional courses, to be selected from the following list (provided that at least one course in modern languages and at least one course in natural science must be selected):—

1. ELEMENTARY LATIN (counting as two courses).—Grammar, Caesar's Gallic War, books I.-IV.; translation into Latin of simple English sentences.
2. ADVANCED LATIN.—(1) *Either* Cicero,—the four orations against Catiline, and those for Archias and for the Manilian Law; *or* Vergil,—Æneid, books I.-VI., and Eclogues. (2) Translation at sight into English of passages of easy narrative prose Latin.
3. ADVANCED MATHEMATICS (counting as two courses), as specified on page 30.
4. ELEMENTARY FRENCH (counting as two courses), as specified on page 29.
5. ELEMENTARY GERMAN (counting as two courses), as specified on page 30.
6. ADVANCED FRENCH, as specified on page 30.
7. ADVANCED GERMAN, as specified on page 30.
8. PHYSICAL GEOGRAPHY AND BOTANY, as specified on page 30.
9. PHYSICS, as specified on page 31.
10. CHEMISTRY, as specified on page 31.

SPECIAL COURSES.

Special students, not candidates for a degree, may be admitted, upon passing such examinations as the Faculty shall in each case prescribe. (See also page 25.)

GENERAL REGULATIONS CONCERNING ADMISSION.

ADVANCED STANDING.—All candidates for advanced standing must satisfy the Faculty of their proficiency in the preparatory studies, the required studies already pursued by the classes they propose to enter, and the proper quota of elective studies, or studies recognized as

equivalents therefor. A certificate of standing in another college is not accepted as evidence of such proficiency, without such further inquiry or examination as may be necessary in the judgment of the respective instructors.

PRELIMINARY EXAMINATIONS.—A candidate for admission may obtain a preliminary record a year or more in advance of the time at which he expects to enter college, on condition of passing, in the June and September examinations of any year taken together, in the equivalent of at least half of the requirements for admission. Teachers and prospective candidates for admission may obtain from the Secretary of the Faculty a schedule of the values which will be assigned to each subject in determining the question of a student's preliminary record.

*** DATE AND PLACE OF EXAMINATIONS.**—The regular examination for admission is held on the Thursday and Friday of Commencement week. Candidates must present themselves at South College at 9 A. M. on the former day. A second examination is held, commencing on the day preceding the first day of the first term. Candidates may be examined in Philadelphia, Cleveland, Cincinnati, or Chicago, provided they make application to the President before June 1. The time of these examinations will be Thursday and Friday of Commencement week. If no applications are received before June 1, these examinations will not be held.

ADMISSION BY CERTIFICATE.—Certificates covering the foregoing requirements for admission to college are received from certain schools of good standing, which have been approved by the Faculty. The privilege of certification is not given to schools which require less than four years of Latin and three years of Greek in their college preparatory course.

After January 1st, 1904, no certificate will be received from any school in New England which has not been approved by the New England College Entrance Certificate Board, of which this college is a member. The Secretary of the Board is Prof. N. F. Davis, of Brown University, Providence, R. I., to whom applications for the certificate privilege should be addressed.

* In 1903 the regular examination for admission will be held on Thursday and Friday, June 25 and 26.

Diplomas (but not certificates) issued by the Regents of the University of the State of New York, and pass cards supplementary to such diplomas, will be received in lieu of examination in the subjects which they cover.

Certificates from preparatory schools and Regents' diplomas are never accepted in lieu of examination for advanced standing.

Students entering by certificate are considered as on trial until the completion of the mid-year examinations. A student admitted to college on certificate, who is dismissed during his Freshman year on account of inability to keep up with his class, must take examinations in all subjects required for admission, in case he desires to return to college.

Detailed information concerning admission by certificate may be obtained on application to the Secretary of the Faculty.

ADMISSION OF WOMEN.—At their annual meeting in June, 1900, the Trustees of the University passed the following resolution: "The University will admit women in a number limited to those who can be accommodated in the college buildings and in their own homes in Middletown, and the number in the University shall be limited to twenty per cent. of the whole number of students in the preceding year."

In view of the limitation of the number of women to be admitted, all women desiring admission should, if possible, make application to the Secretary of the Faculty before June 15th, though applications made later will in some cases be considered.

Miss A. A. Fisher, M. A., Dean of Women, has general oversight of the interests of the women students, and correspondence from women on all matters, except admission, course of study, and tuition scholarships, should be addressed to her.

All candidates for admission must present satisfactory testimonials of good moral character; and certificates of regular dismission will be required from those who have been members of other colleges.

COURSES OF INSTRUCTION.

For regulations concerning selection of studies, see page 67.

The figures ¹ or ² following the number of a course indicate respectively that the course is offered for the first or the second half-year.

The place of meeting of each course is indicated by means of the following abbreviations: N. C.=North College; S. C.=South College; L. CH.=Lower Chapel; L. CH. 2=Small recitation room, Lower Chapel; J. H.=Judd Hall; O. H.=Observatory Hall; CHEM. LAB., PHYS. LAB., BIOL. LAB.=Chemical, Physical, Biological Laboratory.

The Roman numerals in parenthesis following each course indicate the examination group to which it is assigned. For table of groups, see pages 65 and 66.

An asterisk prefixed to the number of a course indicates that it can be elected only with the previous approval of the instructor.

LATIN.

PROFESSOR MERRILL; ASSOCIATE PROFESSORS NICOLSON
AND CHASE.

NOTE.—On account of the expected absence of Professor Merrill during the second half of the year 1902-03, and the necessary sharing by Associate Professor Chase of the instruction offered in Greek, the courses in Latin for that half-year are somewhat reduced in number, and only the courses actually to be given in 1902-03 are here recorded. For a statement of the courses which are usually offered, and which may be expected for 1903-04, see the Announcement of Courses of Instruction to be issued at the end of the current year.

I. LIVY,—Books 21 and 22 (*first half-year*). TERENCE,—Phormio; PLAUTUS,—Captivi; CICERO,—De Senectute (*second half-year*). Exercises in sight translation and in prose composition throughout the year. SECTION 1, *Mon., Wed., Th., Fri., at 9*; SECTION 2, *Mon., Wed., Th., Fri., at 11*; SECTION 3, *Mon., Wed., Th., Fri., at 12.* 5 S. C. PROFESSORS NICOLSON AND CHASE. (II.)

Course I. is required of Classical and Latin-Scientific Freshmen.

II.¹ CICERO,—Selected Letters. *Tu., Th., at 11* (*first half-year*). 40 N. C. PROFESSOR MERRILL. (X.)

III.² HORACE,—Satires and Epistles. *Tu., Th., at 11 (second half-year)*. 3 S. C. PROFESSOR CHASE. (X.)

IV.¹ HORACE,—Odes and Epodes. *Tu., Th., at 9 (first half-year)*. 40 N. C. PROFESSOR MERRILL. (VIII.)

V.² RAPID READING. The aim in this course is to read large amounts of comparatively easy Latin, with a view to acquiring facility in the use of the language. Vergil's *Æneid*, VII.—XII., Cicero's *De Natura Deorum*, and other works, to be determined hereafter. *Tu., Th., at 9 (second half-year)*. 3 S. C. PROFESSOR NICOLSON. (VIII.)

VI. LATIN PROSE COMPOSITION. The course begins with the systematic study of the elementary principles of Latin rhetoric, accompanied by brief practical exercises, and proceeds, in the second half-year, to the rendering into Latin of connected passages of modern historical and epistolary prose. *Mon., at 3*. 5 S. C. PROFESSOR CHASE.

Courses II.—VI. are elective for those who have taken Course I. Courses I., VI., and any two of Courses II.—IV. are required of candidates for preliminary honors in classics. Prospective candidates for such honors are advised to elect Course VI. in the Sophomore year.

VII. LATIN PROSE COMPOSITION. A course in continuation of Course VI., and involving original composition in Latin on historical, descriptive, and argumentative themes. *Wed., at 3*. 3 S. C. PROFESSOR CHASE.

Course VII. is elective for those who have taken Course VI.

VIII.¹ OVID,—the *Fasti*, with especial attention to questions of Roman history and ritual. *Tu., Th., at 10 (first half-year)*. PROFESSOR NICOLSON. (IX.)

IX.¹ TACITUS,—selections from the *Annals* I.—VI., designed to illustrate the author's conception of the character of Tiberius, and of the upbuilding of the principate. *Tu., Th., at 12 (first half-year)*. 40 N. C. PROFESSOR MERRILL. (XI.)

X.¹ LATIN EPIGRAPHY. An introductory course, with especial attention to inscriptions of historical interest. The course is prefaced by a brief survey of the general classes and formal characteristics of Latin inscriptions, based upon Egbert's Introduction. *Wed., Fri., at 9 (first half-year)*. 40 N. C. PROFESSOR MERRILL. (II.)

Courses VIII.—X. are elective for those who have taken at least two of Courses II.—V.

XI.¹ ROMAN PRIVATE LIFE AND SOCIAL INSTITUTIONS. A course of lectures, illustrated by photographs, engravings, and lantern slides, and requiring some collateral study of original and of secondary authorities, and the careful preparation of note-books. *Wed., Fri., at 2 (first half-year)*. 40 N. C. PROFESSOR MERRILL.
Course XI. is elective for those who have taken Course I.

For the most successful prosecution of even the earlier courses in Latin, ability to read German prose on philological subjects is decidedly advantageous, and for Course X. (and usually for Course XI. and for other higher courses not offered the present year) it is necessary. Students, therefore, who look forward to the study of Latin beyond the more elementary courses, and who have on admission to college no acquaintance with German, should devote especial attention to that subject in the Freshman year.

GREEK.

ASSOCIATE PROFESSORS PATON AND CHASE.

NOTE.—This announcement of courses in Greek is for the present year only. It is probable that there will be several changes after 1903.

I. LYSIAS,—Select Orations; PLATO,—Apology and parts of the *Phædo (first half-year)*. HOMER,—*Odyssey (second half-year)*. Exercises in Greek composition and in translation at sight. SECTION 1, *Tu., Wed., Th., Fri., at 9*; SECTION 2, *Tu., Wed., Th., Fri., at 10*. 2 S. C. PROFESSOR PATON. (III.)

Course I. is required of Classical Freshmen.

II. DEMOSTHENES,—*Philippics*. PLUTARCH,—*Life of Demosthenes*. Collateral reading in Greek history (*first half-year*). SOPHOCLES,—*Oedipus Tyrannus*. Lectures and collateral readings on the Greek theatre and on the *Oedipus* legend in the Attic dramatists (*second half-year*). *Tu., Th., at 12*. 2 S. C. PROFESSOR PATON. (XI.)

Course II. is elective for those who have taken Course I. It is required of candidates for preliminary honors in classics.

III. GREEK PRIVATE LIFE. Lectures and collateral reading on the house, dress, family, education and social customs, with especial reference to Athens. *Th., at 2*. 2 S. C. PROFESSOR PATON.

Course III. is elective for those who have taken, or are taking, Course II. It is required of candidates for preliminary honors in classics.

IV. THUCYDIDES,—Book II. Collateral reading on the history of the Peloponnesian War (*first half-year*). EURIPIDES,—Iphigenia among the Taurians. SOPHOCLES,—Electra. One other play (*second half-year*). *Mon., Wed., Fri., at 12.* 2 S. C. PROFESSOR PATON. (V.)

Course IV. is elective for those who have taken Course II.

V. HISTORICAL DEVELOPMENT OF GREEK AND LATIN. This course includes lectures on Greek and Latin sounds and inflections with the reading of selected inscriptions illustrating the dialects of Greek and the historical stages of Latin, an examination, from the original sources, of the ancients' knowledge of linguistic study, and a discussion of the relationship of the two languages. *Mon., Th., at 8.* 5 S. C. PROFESSOR CHASE.

Course V. is elective for those who have taken Course II.

It is very desirable that those who elect the advanced courses in Greek should be able to read German prose on philological subjects.

GERMAN.

ASSOCIATE PROFESSOR FAUST; MR. SUPER.

I. ELEMENTARY GERMAN. Harris's German Lessons, Hewett's German Reader. Heyse,—L'Arrabbiata; Storm,—Immensee; Wildenbruch,—Das edle Blut; Zschokke,—Das Abenteuer der Neujahrsnacht, Der zerbrochene Krug; Gerstäcker,—Germelshausen. Vos's Materials for German Conversation. Thomas's Practical German Grammar. SECTION 1, *Mon., Wed., Fri., at 8.* 12 S. C. PROFESSOR FAUST. SECTION 2, *Mon., Wed., Fri., at 11.* 6 S. C. MR. SUPER. (I.)

For rules in regard to the election of I. German, see page 42.

II. ADVANCED GERMAN. READINGS. Schiller,—Wilhelm Tell; Lessing,—Minna von Barnhelm; Goethe,—Hermann und Dorothea; Heine's Prose (Macmillan); Freytag,—Aus dem Staat Friedrichs des Grossen. At sight: Seidel,—Novellen; Chamisso,—Peter Schlemihl. PROSE COMPOSITION AND GRAMMAR. Harris's Selections for

German Composition. Thomas's Practical German Grammar. *Mon., Wed., Fri., at 11.* 11 S. C. PROFESSOR FAUST. (IV.)

Course II. is elective for those who have taken Course I.

III. GERMAN CONVERSATION. For acquiring a vocabulary and readiness in the use of German, Meissner's Practical Lessons in German Conversation serves in part as guide. All class exercises are conducted in the German language. Readings and lectures in German are given on subjects relating to the geography (illustrated by physical and political maps) and *Kulturgeschichte* of Germany. *Tu., at 2.* 6 S. C. PROFESSOR FAUST.

Course III. is elective for those who have taken Courses I. and II. It may be elected, with the permission of the instructor, together with Course II.

[* IV. PROSE COMPOSITION AND ADVANCED GRAMMAR. Von Jagemann's Prose Composition; Bauer-Duden,—Neuhochdeutsche Grammatik; theme-writing; discussion of methods of teaching German. *Once a week.* PROFESSOR FAUST.]

Course IV. is elective, with the permission of the instructor, for those who have taken Courses I.—III. It is omitted the present year.

V. GOETHE AND SCHILLER. Goethe,—Faust (edited by Thomas), Part I., and selected portions of Part II. A critical study of the text, and discussion of the questions concerning the beginnings and the composition of the drama. Schiller,—Wallenstein (three parts). Study of the lives and works of the two authors. *Tu., at 9,* 11 S. C.; *Th., at 9,* 6 S. C. PROFESSOR FAUST. (VIII.)

Course V. is elective for those who have taken Courses I. and II.

VI.¹ MIDDLE HIGH GERMAN. Paul's *Mittelhochdeutsche Grammatik*. Das Nibelungenlied (edited by Zarncke). Walther von der Vogelweide (edited by Paul). *Mon., 7-9 p. m. (first half-year).* 10 S. C. PROFESSOR FAUST.

Course VI. is elective for those who have taken Courses I.—III.

VII. THE HISTORY OF GERMAN LITERATURE,—from the earliest period to the present time. A course of lectures delivered in the German language. Collateral readings: Scheffel,—Ekkehard; Buchheim,—Deutsche Lyrik. *Mon., at 12 (counting as two hours a week).* 10 S. C. PROFESSOR FAUST. (V.)

Course VII. is elective for those who have taken Courses I.—III.

VIII. RAPID READINGS IN CONTEMPORARY GERMAN LITERATURE. Gerhart Hauptmann,—*Versunkene Glocke*; Sudermann,—*Die Heimat*; works of Ebner-Eschenbach and others. *Tu., at 3.* 5 S. C. MR. SUPER. (XII.)

Course VIII. is elective for those who have taken Courses I. and II.

*IX.² GERMAN SEMINARY. Subject: Advanced Middle High German. Wolfram's *Parzival*. *Mon., 7-9 p. m. (second half-year).* PROFESSOR FAUST.

Course IX. is elective, with the permission of the instructor, for those who have taken Courses I.-VII. It is designed for graduate students and candidates for special honors in German.

Graduate Instruction.

Courses V., VI., and VII., with additional reading, may be taken by graduate students. Course IX. is designed for them. Those desiring advanced work in German literature, or an introduction to the study of German philology, are assigned courses of private reading.

ROMANOE LANGUAGES.

PROFESSOR KUHN; MR. SUPER.

I. ELEMENTARY FRENCH. Whitney's *Practical French Grammar*, Part I. Kuhns's *French Reading for Beginners*. Victor Hugo,—*Quatrevingt-treize*; Erckmann-Chatrian,—*Madame Thérèse*; About,—*Le Roi des Montagnes*. Part of these books are read at sight. There is also personal drill in pronunciation. SECTION 1, *Mon., Wed., Fri., at 12*; SECTION 2, *Mon., Wed., Fri., at 3.* 3 S. C. MR. SUPER. (V.)

For rules in regard to the election of I. French, see page 42.

II. ADVANCED FRENCH. Whitney's *Grammar*, Part II. This course has for its main object the study of advanced grammar and composition, in connection with the reading of a large amount of French. During the second half-year more attention is paid to the literature. *Tu., Th., at 8.* 12 S. C. PROFESSOR KUHN. (VII.)

Course II. is elective for those who have taken Course I.

[* III. FRENCH CONVERSATION. Bercy,—Le Français Pratique. During the year informal lectures on travel in Europe are given in French. Some of the lectures are illustrated by lantern slides. *Once a week.* PROFESSOR KUHN.]

Course III. is elective, with the permission of the instructor, for those who have taken Course I. It is omitted the present year.

IV. FRENCH LITERATURE. Selections from the works of the more important authors of the seventeenth, eighteenth, and nineteenth centuries. There is at each recitation translation of English into French. Frequent lectures are given on the general state of literature in France during the period studied. In addition, each member of the class must take a somewhat extended course of reading and must, at the end of each half-year, write a thesis on the life and works of a selected author. *Tu., Th., at 10.* 6 S. C. PROFESSOR KUHN. (IX.)

Course IV. is elective for those who have taken Courses I.—III.

[V. OLD FRENCH. Clédat, — Morceaux Choisis des Auteurs Français du Moyen Age. Lectures and exercises in Old French etymology, based on La Vie de St. Alexis. *Once a week.* PROFESSOR KUHN.]

Course V. is elective for those who have taken Courses I.—IV. It is omitted the present year.

VI. HISTORY OF FRENCH LITERATURE, with especial attention to its sources and influence on other literatures. Lectures, collateral readings, and reports. *Wed., at 8.* 11 S. C. PROFESSOR KUHN. (I.)

Course VI. is elective for those who have taken Courses I.—IV.

[VII. ELEMENTARY ITALIAN. Italian Principia, I. De Amicis, —Cuore; Manzoni, —I Promessi Sposi; Pellico, —Le Mie Prigioni. In addition to the regular work by the class in translating modern prose, the instructor translates and interprets to the class the Inferno and the Purgatorio of Dante, the last half-hour of each recitation being devoted to this exercise. As a preparation for this part of the work, the class is required to read Rossetti's Shadow of Dante. *Twice a week.* PROFESSOR KUHN.]

Course VII. is elective for Sophomores who have taken I. French. It is omitted the present year.

VIII. ADVANCED ITALIAN. Dante, Petrarch, Tasso, Ariosto. Lectures on the history of Italian literature. *Fri., at 8, and a second hour at the pleasure of the instructor.* 6 S. C. PROFESSOR KUHN. (I.)

Course VIII. is elective for those who have taken Course VII.

IX. ELEMENTARY SPANISH. Grammar, and reading of simple Spanish prose. *Tu., at 7 p. m.; Fri., at 2.* 6 S. C. MR. SUPER.

Course IX. is elective for those who have taken I. French.

Graduate Instruction.

Course V. is designed for graduate students, but is elective for undergraduates.

Of the courses in French and German, Classical Freshmen are required to pursue either I. French or I. German, but are allowed their option between the two. Students in the Latin-Scientific Course are examined at entrance in the equivalent of either I. French or I. German, as they may elect, and in the Freshman year are required to pursue one course in French or German. They may either continue the study of the language in which their entrance examination was taken, or may begin the study of the other language, as they may elect. Students in the Scientific Course are required to complete the equivalent of Courses I. and II. in French and I. and II. in German. Such of these courses as they have not pursued and passed in before entering college, they must take as soon as possible after entering.

ENGLISH LITERATURE

PROFESSOR WINCHESTER.

I. GENERAL INTRODUCTION TO ENGLISH LITERATURE. 1. An outline of the history of the literature. Stopford Brooke's *English Literature*, with lectures. *First half-year.* 2. Class-room reading and discussion of literary masterpieces, illustrative of different varieties and periods of English literature. The works selected are: Chaucer's Prologue to the *Canterbury Tales*, and the *Nonne's Preestes Tale*; Shakespeare's *Hamlet*; selections from Pope's *Satires*. *Second half-year.* 3. A brief course of collateral reading, with written recitations and essays upon subjects drawn from the reading. Members of the class may choose any one of the courses in Winchester's *Five Short Courses of Reading in English Literature*. These courses consist of selections from the following authors:—

(1) 1559-1674. Marlowe, Green, Shakspeare, Bacon, Milton.

(2) 1660-1745. Dryden, Addison, Steele, Swift; with Johnson's *Lives of Dryden, Swift, and Pope*, and Thackeray's *Lectures on the English Humourists*.

(3) 1745-1789. Gray, Goldsmith, Johnson, Burke, Cowper, Burns; with Leslie Stephen's *Life of Johnson*, Dobson's *Life of Goldsmith*, Morley's *Life of Burke*.

(4) 1789-1832. Wordsworth, Coleridge, De Quincey, Lamb, Byron, Shelley, Keats.

(5) 1832-1880. Carlyle, Ruskin, Matthew Arnold, Browning, Tennyson.

This work is tested by a series of written recitations and theses during the year. *Mon., Wed., at 12.* 11 S. C. (V.)

Course I. is elective for Sophomores.

II. ENGLISH LITERATURE OF THE VICTORIAN PERIOD. Carlyle, Ruskin, Arnold, Tennyson, Browning. *Mon., Wed., Fri., at 9.* 11 S. C. (II.)

Course II. is elective for those who have taken Course I.

[III. ENGLISH POETRY, 1789-1832. Burns, Wordsworth, Coleridge, Scott, Byron, Shelley, Keats. *Three times a week.*]

Course III. is elective for those who have taken Course I. Courses II. and III. are given in alternate years, Course III. being omitted the present year.

IV. LITERATURE OF THE PERIOD OF QUEEN ANNE. Defoe, Steele, Addison, Swift, Bolingbroke, Pope. *Mon., Wed., at 11.* 56 N. C. (IV.)

Course IV. is elective, with some restrictions, for those who have taken Course I., either Course II. or Course III., and Course VI.

[V. ESSAYISTS AND REVIEWERS OF THE EARLY NINETEENTH CENTURY. Jeffrey, Hazlitt, De Quincey, Lamb, Wilson, Hunt. *'Twice a week.'*]

Course V. is elective, with some restrictions, for those who have taken Course I., either Course II. or Course III., and Course VI. Courses IV. and V. are given in alternate years, Course V. being omitted the present year.

VI. ELEMENTS OF LITERARY CRITICISM. Discussion of the essential elements and the various forms of literature, with practical exercises in the application of critical principles. Winchester's *Principles of Literary Criticism* is used as a text-book. *Fri., at 8.* 11 S. C. (I.)

Course VI. is elective for those who have taken Course I.

VII. DEBATE. Weekly practical exercises. Two members of the class are appointed to conduct the debate at each exercise. They must prepare written briefs of their argument, which are revised and corrected by the instructor, and are then publicly posted four days before the debate. *Mon., at 10. L. CH. 2.*

Course VII. is elective for Seniors, and those who elect it are excused from half the rhetorical work required in Course VIII.

VIII. ENGLISH COMPOSITION. The rhetorical exercises of the Senior class are assigned to this department. Every Senior (unless excused from half this requirement by the provisions of Course VII.) must write either four essays or two orations. All written work receives the personal criticism of the instructor, and the orations are also rehearsed before the instructor in elocution.

Graduate Instruction.

Special provision for graduate instruction is made to meet the wants of individual students.

ENGLISH LANGUAGE.

PROFESSOR MEAD; MR. BAKER.

I. RHETORIC. Scott and Denney's Paragraph Writing, Mead's Composition and Rhetoric, Lewis's Specimens of the Forms of Discourse. For supplementary reading, Wendell's English Composition is recommended. The members of the class are required to write numerous exercises illustrating and applying the principles laid down in the text-books. These exercises are discussed and criticised in the class-room, and also at hours appointed by the instructor. SECTION 1, *Mon., at 9*; SECTION 2, *Tu., at 8*; SECTION 3, *Tu., at 9 (counting as two hours a week)*. 6 S. C. PROFESSOR MEAD AND MR. BAKER. (VII.)

Course I. is required of Freshmen.

II. ENGLISH COMPOSITION. A. Sophomores are required to write six essays during the year on subjects approved by the instructor. MR. BAKER.

B. Juniors write on subjects of their own selection, and choose one of the two following courses: Course I., consisting of five general and two departmental essays; Course II., consisting of two

general and four departmental essays. The departmental essays must be written on subjects related to some department of college work and approved by the instructor in English. PROFESSOR MEAD AND MR. BAKER.

Appointments for personal criticism are made for Sophomores and Juniors.

*III. ENGLISH COMPOSITION,—Advanced Course. The chief aim of the year's work is to give practice in several of the forms of discourse, including the short story and debate. In order to secure a somewhat intimate knowledge of structure and style, written translations from some foreign language are required. For study of the theory of composition, the following books are used: Genung's *Working Principles of Rhetoric*; Cody's *The World's Greatest Short Stories*; Alden's *Art of Debate*; Bradley's *Orations and Arguments*. The work is, however, mainly practical rather than theoretical. *Tu., Th., at 2.* 5 S. C. MR. BAKER.

Course III. is elective for Sophomores, with the permission of the instructor.

IV.¹ OLD ENGLISH. This course is intended to point out the close relations that exist between modern English and Old English (Anglo-Saxon), and to serve as an introduction to the study of the English language and Early English literature. Sweet's *First Steps in Anglo-Saxon* (including a prose version of the story of Beowulf) and Smith's *Old English Reader*. Translation at sight is a frequent exercise from the beginning. *Mon., Wed., at 8 (first half-year).* 6 S. C. PROFESSOR MEAD.

(I.)

Course IV. is elective for Sophomores.

V.² OLD ENGLISH. Bright's *Anglo-Saxon Reader*, with additional readings in prose or poetry, as the class may elect. In this course reading at sight is especially encouraged. *Mon., Wed., at 8 (second half-year).* 6 S. C. PROFESSOR MEAD.

(I.)

Course V. is elective for those who have taken Course IV.

VI. OLD ENGLISH LITERATURE. Brooke's *History of English Literature from the Beginning to the Norman Conquest*, with lectures on the history of Old English literature before 1100 A. D., and some account of contemporary Germanic literature. One aim of this course is to give to students whose work lies mainly in modern literature a survey of Old English prose and poetry before the Norman

Conquest, and to describe the life of which the literature is a reflection. Typical selections from Old English poems are read in translation. *Mon., at 3.* 6 S. C. PROFESSOR MEAD. (VI.)

Course VI. is elective for Sophomores.

*VII. MIDDLE ENGLISH. A course mainly in Chaucer and typical fourteenth and fifteenth century poetry. The pieces read in class are discussed in lectures treating the period from the point of view of comparative literature. For this course, as at present arranged, no knowledge of Anglo-Saxon is required. *Wed., Fri., at 3.* 6 S. C. PROFESSOR MEAD. (VI.)

Course VII. is elective for Juniors, with the permission of the instructor.

[VIII. MIDDLE ENGLISH LITERATURE. A course of lectures on English literature from the Norman Conquest to the Revival of Learning. The aim of this course is to point out the chief literary types in the early literature of England, and to indicate the materials that have been used again in modern English literature. Especial attention is given to the Arthurian Romances and to Chaucer. *Once a week.* PROFESSOR MEAD.]

Course VIII. is elective for Juniors. It is omitted the present year.

[IX. BEOWULF. An advanced course in Old English poetry, with supplementary linguistic investigations. *Once (counting as twice) a week.* PROFESSOR MEAD.]

Course IX. is elective for those who have taken Course V. It is omitted the present year.

X. HISTORY OF THE ENGLISH LANGUAGE. The aim of this course, which is of a popular, untechnical character, is to show in lectures and class discussions how English words have been made, how they have changed their pronunciation, their form, and their meaning, how and when foreign words have been borrowed, and, in particular, how American English differs from that of England. For this course no knowledge of Anglo-Saxon is required. The principal collateral reading is based upon Greenough and Kittredge's Words and their Ways in English Speech. *Tu., Th., at 11.* 6 S. C. PROFESSOR MEAD. (X.)

Course X. is elective for Juniors.

Graduate Instruction.

Special graduate courses may be arranged on application.

ELOCUTION.

PROFESSOR HIBBARD.

I. DECLAMATION. Freshmen are required to deliver declamations, mostly of their own selection, fortnightly.

Sophomores are required to deliver nine declamations during the year.

II. THEORY OF ELOCUTION. 1. Mechanics of speech. Theories of vocal expression. Text-book, Russell's Vocal Culture. *First term.*

2. Gesture. Theories of Austin and Delsarte. Text-book, Bacon's Manual of Gesture. *Second term.*

3. Study of style. Lectures on expression, extempore speech and sources of power. *Third term. Tu., Th., at 3. L. CH. (XII.)*
Course II. is elective for Juniors.

*III. FORENSIC AND DRAMATIC EXPRESSION. The study and practice of addresses, orations, and specimens of dramatic literature, as a preparation for public speaking. *Th., at 12. L. CH. (XI.)*

Course III. is elective, with the permission of the instructor, for those who have taken Course II.

HISTORY.

ASSOCIATE PROFESSOR DUTCHER.

I. HISTORY OF ENGLAND. English history from the accession of the Tudors to the present day, with introductory lectures on the earlier periods. Gardiner's Student's History of England, Adams and Stephens's Select Documents of English History. Lectures and assigned work. *Tu., Th., at 3. 12 S. C. (XII.)*

Course I. is elective for Sophomores. Those intending to elect the later courses in history should elect Course I. in the Sophomore year.

[II. AMERICAN COLONIAL HISTORY, 1492-1783. Thwaites's The Colonies, Hart's Formation of the Union, MacDonald's Select Charters. Lectures and assigned work. *Three times a week.*]

Course II. is elective for those who have taken Course I. It is omitted the present year.

III. UNITED STATES HISTORY, 1783-1865. Hart's Formation of the Union, Wilson's Division and Reunion, MacDonald's Select Documents of United States History. Lectures and assigned work. *Mon., Wed., Fri., at 3. L. CH. 2. (VI.)*

Course III. is elective for those who have taken Course I. Courses II. and III. are given in alternate years, Course II. being omitted the present year.

IV. EUROPEAN HISTORY, 300-1600. Hassall's Periods of European History, vols. 1-4. Lectures and assigned work. *Mon., Wed., Fri., at 9.* (II.)

Course IV. is elective for those who have taken Course I.

[V. EUROPEAN HISTORY, 1600-1890. Stephens's Syllabus of Modern European History; Hassall's Periods of European History, vols. 5-8. Lectures and assigned work. *Three times a week.*]

Course V. is elective for those who have taken Course I. Courses IV. and V. are given in alternate years, Course V. being omitted the present year.

*VI. HISTORICAL SEMINARY. Subject for the present year: Discussions of historical method, with special application to the study of select topics from the period of the American Civil War. *Tu., 7-10 p. m. (first and second terms), counting as two hours for the year.* 19 O. H.

Course VI. is elective, with the permission of the instructor, for those who have taken Course I., either Course II. or Course III., and either Course IV. or Course V.

ECONOMICS AND SOCIAL SCIENCE.

PROFESSOR FISHER.

I. PRINCIPLES OF ECONOMIC SCIENCE. General introductory course. Recitations and discussions. SECTION 1, *Mon., Wed., at 11;* SECTION 2, *Mon., Wed., at 12.* L. CH. 2. (IV.)

Course I. is required in the Junior or Senior year; with the permission of the instructor, it may be taken by Sophomores.

[II. ADVANCED ECONOMICS. This course includes a brief historical view, on the basis of Ingram's History of Political Economy, and critical studies of the theories of value and distribution. *Twice a week.*]

Course II. is elective for those who have taken Course I. It is omitted the present year.

[III. PUBLIC FINANCE. The economy of the state:—revenues from taxation, from government industries, and from other sources; the contraction, administration, conversion, and liquidation of public.

debts; government expenditures, their social and industrial effects. The work of this course is based on Adams's Science of Finance; a number of lectures are also given, and references are made to standard authorities. *Twice a week.*]

Course III. is elective for those who have taken Course I. It is omitted the present year.

[IV. 1. MONEY AND BANKING. A course on the general principles and history of monetary and banking institutions, on the social and industrial aspects of the present monetary situation, and on the various schemes for reform. 2. THE TRUST PROBLEM. A discussion of industrial combinations, their causes, methods, and effects, and the means of social control. *Twice a week.*]

Course IV. is elective for those who have taken Course I. It is omitted the present year.

V. THE GENERAL LABOR PROBLEM. A course of lectures on the nature, causes, and justification of the present social discontent, and on such suggested remedies as moral elevation, charity, education, provident institutions, labor organizations, strikes, conciliation and arbitration, labor legislation, improved wage systems, profit-sharing, coöperation, nationalization of the land, socialism, communism, anarchism. *Tu., Th., at 11.* L. CH. 2. (X.)

Course V. is elective for those who have taken Course I. Courses IV. and V. are given in alternate years, Course IV. being omitted the present year.

VI. SOCIOLOGY. A discussion of the fundamental principles of social organization, and the conditions and forms of social progress. *Tu., Th., at 9.* L. CH. 2. (VIII.)

Course VI. is elective for those who have taken, or are taking, Course I.

[VII. SOCIAL SCIENCE. An examination of certain concrete social problems of the present:—pauperism and charity; the defective and criminal classes. The class-room work is supplemented by visits to several of the charitable, penal, and reformatory institutions in and about Middletown. *Twice a week.*]

Course VII. is elective for those who have taken, or are taking, Course I. Courses VI. and VII. are given in alternate years, Course VII. being omitted the present year.

* VIII. ECONOMIC SEMINARY. Each member of the seminary takes for private individual investigation, under the direction of the instructor, some problem in economics, finance, statistics, or social science, and week by week reports in class on progress made and obstacles met. At the close of the year the work is brought together in a final report or thesis. *Tu., 7-10 p. m. (first and second terms), counting as two hours for the year.* 10 O. H.

Course VIII. is elective, with the permission of the instructor, for those who, having received first or second grade in Course I., take any three of the Courses III.-VII.

It will be noted that in each of the college classes certain courses cannot be taken at all except by such students as take Course I. in the Sophomore year. Hence a student in an odd-numbered class who wishes to take Courses III. and IV., must qualify himself to take them in his Junior year by taking Course I. in his Sophomore year; and similarly a student in an even-numbered class can take Courses II. and V. only by taking Course I. in his Sophomore year. It should be noted, however, that Course I. may be taken in the Sophomore year only with the permission of the instructor.

Graduate Instruction.

Course VIII. is intended primarily for graduate students, but is open also to such undergraduates as are making special studies in the department. Courses II.-VII., while intended primarily for undergraduates, may also be taken with advantage by graduates who have studied only the principles of economic science.

PHILOSOPHY.

PROFESSORS ARMSTRONG AND DODGE.

I.² LOGIC. Jevons-Hill's Elements of Logic. An elementary course in the fundamental forms of reasoned thinking, deductive and inductive alike. The study of the text-book is illustrated by numerous examples in logical praxis. SECTION 1, *Tu., Th., at 8*; SECTION 2, *Tu., Th., at 10 (second half-year).* 11 S. C. PROFESSOR DODGE. (IX.)

Course I. is required of Sophomores.

II.¹ PSYCHOLOGY. Sully's Outlines of Psychology, with references to other authorities. Lectures and discussions are used to supplement the text-book. These are introduced especially in explanation of the more recent psychological investigations and of positions still under debate. *Mon., Wed., Fri., at 10 (first half-year)*. 11 S. C. PROFESSOR ARMSTRONG. (III.)

Course II. is required of Juniors.

III. PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY. Ladd's Outlines of Physiological Psychology. The course begins with a discussion of the physical basis of mind, but more than half of the time is devoted to the study of the chief experimental methods and results. Lectures and experimental demonstrations supplement the study of the text-book. *Tu., Th., at 3*. 6 S. C. PROFESSOR DODGE. (XII.)

Course III. is elective for Juniors.

IV.¹ ADVANCED LOGIC. Hibben's Inductive Logic. The course opens with several lectures on the history of logic. Special attention is given to the discussion of the principles of induction and scientific method and to the criticism of concrete cases of scientific inference. *Tu., Th., at 10 (first half-year)*. 11 S. C. PROFESSOR DODGE. (IX.)

Course IV. is elective for Juniors.

V.¹ INTRODUCTION TO PHILOSOPHY. Lectures and recitations, with references to the Introductions of Stuckenberg, Ladd, Külpe, and Paulsen. *Fri., at 11 (first half-year)*. 3 S. C. PROFESSOR ARMSTRONG. (IV.)

Course V. may not be elected by itself. It must be combined either with Course IV. or with Course VI.

VI.² ANCIENT AND MEDIAEVAL PHILOSOPHY. Zeller's Outlines of Greek Philosophy, with references to Schwegler, Zeller's larger work, and other authorities; lectures and discussions. *Tu., Th., at 10 (second half-year)*. 3 S. C. PROFESSOR ARMSTRONG. (IX.)

Course VI. is elective, under ordinary circumstances, for those who have taken either Course IV. or Course V.

VII.¹ MODERN PHILOSOPHY FROM THE RENAISSANCE TO KANT. Falckenberg's History of Modern Philosophy; lectures, recitations, discussions, and references to other standard histories of philosophy. *Mon., Wed., at 11 (first half-year)*. 4 S. C. PROFESSOR ARMSTRONG. (IV.)

Course VII. is elective, under ordinary circumstances, for those who have taken Course VI.

VIII.² MODERN PHILOSOPHY FROM KANT TO THE PRESENT TIME. Falckenberg's History of Modern Philosophy; lectures, recitations, discussions, and references to other authorities. *Mon., Wed., at 11 (second half-year)*. 4 S. C. PROFESSOR ARMSTRONG. (IV.)

Course VIII. is elective for those who have taken Course VII.

IX. ADVANCED PSYCHOLOGY. The object of this course is the discussion of important selected topics. The views of leading thinkers are presented in lectures and in formal reports by members of the class. The topics for the current year are taken from the psychology of the emotions and the will. *Fri., at 8*. 5 S. C. PROFESSOR DODGE. (I.)

Course IX. is elective for those who have received not lower than grade three in Course II.

* X. LABORATORY COURSE IN PSYCHOLOGY. Experimental study of special problems. The principal subject of investigation for the present year is the visual perception of motion. *Fri., at 2*. 7 S. C. PROFESSOR DODGE.

Course X. is elective, with the permission of the instructor, for those who have taken Courses II. and III.

XI.¹ READINGS IN MODERN PHILOSOPHY. In this course representative works of leading thinkers of the first half of the modern period are read and discussed. Special attention is given to selections from the works of Descartes, Locke, Berkeley, and Hume. *Tu., Th., at 11 (first half-year)*. 4 S. C. PROFESSOR ARMSTRONG. (X.)

Course XI. is elective for those who are taking Course VII.

XII.² METAPHYSICS. Selections from the works of Kant and Lotze. Class readings and discussions. Topical reports and theses may also be required. *Tu., Th., Fri., at 11 (second half-year)*. 4 S. C. PROFESSOR ARMSTRONG. (X.)

Course XII. is elective for those who are taking Course VIII.

Graduate Instruction.

Courses IX.-XII. are intended for advanced undergraduates and graduates. Special courses for graduate students, under the direction of the instructors of the department, may be arranged in advanced experimental and systematic psychology, historical philosophy, and metaphysics.

ETHICS AND RELIGION.

PRESIDENT RAYMOND; PROFESSORS RICE AND DODGE.

I.¹ **ETHICS.** Lectures and recitations, based on Seth's Study of Ethical Principles. Collateral reading supplements the class-room exercises in both the historical and the theoretical parts of the course. *Wed., Fri., at 10 (first half-year).* L. CH. PROFESSOR DODGE. (III.)

Course I. is required of Seniors.

II.² **EVIDENCES OF CHRISTIANITY.** Recitations and lectures, Fisher's Grounds of Theistic and Christian Belief being used as a text-book. *Wed., Fri., at 10 (second half-year).* II S. C. PROFESSOR RICE. (III.)

Course II. is required of Seniors.

[III.² **THEISM.** Instruction is given by lectures, supplemented by collateral readings and class discussions. The purpose of the course is to discover essential religious phenomena, to test the various historic theories offered in explanation of these phenomena, and to find a philosophic basis for faith. *Twice a week (second half-year).* PRESIDENT RAYMOND.]

Course III. is elective for those who have taken Courses I., II., V.-VII. in philosophy. It is omitted the present year.

[IV.² **RELATIONS OF SCIENCE AND RELIGION.** A course of lectures on the history of important advances in scientific thought and their bearing upon theistic and Christian belief. The heliocentric astronomy, the antiquity of the earth and of man, the theory of evolution, and the correlation of physical and vital forces, are among the topics discussed. *Twice a week (second half-year).* PROFESSOR RICE.]

Course IV. is elective for Juniors. It is omitted the present year.

MATHEMATICS AND ASTRONOMY.

PROFESSORS J. M. VAN VLECK AND E. B. VAN VLECK; DR. DUNKEL.

I. **SOLID GEOMETRY.** Phillips and Fisher's Elements of Geometry. *First third of the year.*

PLANE TRIGONOMETRY. *Second third of the year.*

ANALYTICAL GEOMETRY. *Last third of the year.* SECTION 1, *Mon., Tu., Th., Fri., at 9.* SECTION 3, *Mon., Tu., Th., Fri., at 12.* DR. DUNKEL. SECTION 2, *Mon., Tu., Th., Fri., at 10.* PROFESSOR E. B. VAN VLECK. 12 S. C. (V.)

Course I. is required of Classical Freshmen, and of Latin-Scientific and Scientific Freshmen who did not pass in the advanced requirements in mathematics on admission to college.

II. ALGEBRA. Advanced course. *Tu., Th., at 11.* 26 O. H. DR. DUNKEL. (X.)

Course II. is elective for those who have taken Course I.

[III. TRIGONOMETRY. Advanced course, with applications to problems in surveying and astronomy. *Twice a week.*]

Course III. is elective for those who have taken Course I. It is omitted the present year.

IV. ANALYTICAL GEOMETRY. Advanced course, preceded by an introduction to the theory of determinants. *Wed., Fri., at 11.* 23 O. H. DR. DUNKEL. (IV.)

Course IV. is elective for those who have taken Course I.

V. DIFFERENTIAL AND INTEGRAL CALCULUS. Elementary course. *Tu., Th., Fri., at 12.* 26 O. H. PROFESSOR E. B. VAN VLECK. (XI.)

Course V. is elective for those who have taken Course I.

Courses II., IV., and V. are necessary for those who purpose to pursue advanced courses in pure mathematics; Course V. for those intending to pursue advanced courses in physics and other branches of applied mathematics.

[VI. DIFFERENTIAL EQUATIONS, based on Murray's Treatise on Differential Equations. *Twice a week.* PROFESSOR E. B. VAN VLECK.]

Course VI. is elective for those who have taken Course V. It is omitted the present year.

[VII. ANALYTICAL GEOMETRY OF THREE DIMENSIONS, including especially a study of mathematical models. *Twice a week.* PROFESSOR J. M. VAN VLECK.]

Course VII. is elective for those who have taken Course IV., and who have taken, or are taking, Course V. It is omitted the present year.

VIII. PROJECTIVE GEOMETRY. *Mon., Wed., at 8.* 26 O. H. PROFESSOR E. B. VAN VLECK. (I.)

Course VIII. is elective for those who have taken either Course IV. or Course V.

IX. CALCULUS. Advanced course, with an introduction to the theory of functions of a real variable. *Mon., Wed., at 12; Fri. at 2.* 26 O. H. PROFESSOR E. B. VAN VLECK. (V.)

Course IX. is elective for those who have taken Course V., and one other elective course in mathematics.

[X. THEORY OF FUNCTIONS. Elementary course. *Twice a week.* PROFESSOR E. B. VAN VLECK.]

Course X. is elective for those who have taken Course V. It is omitted the present year.

[XI. ELLIPTIC FUNCTIONS. *Twice a week.* PROFESSOR J. M. VAN VLECK.]

Course XI. is elective for those who have taken Course X. It is omitted the present year.

XII. THEORETICAL MECHANICS. *Tu., Th., at 12.* 23 O. H. PROFESSOR J. M. VAN VLECK. (XI.)

Course XII. is elective for those who have taken Course V.

XIII. DESCRIPTIVE ASTRONOMY. This course is designed to give a general knowledge of the fundamental facts and principles of astronomy, such a knowledge as may properly constitute a part of a general liberal education. *Wed., Fri., at 11.* 26 O. H. PROFESSOR J. M. VAN VLECK. (IV.)

Course XIII. is elective for those who have taken Course I., and is required of Scientific Sophomores.

XIV. SPHERICAL AND PRACTICAL ASTRONOMY, with practical exercises in the observatory. *Tu., Th., at 9.* 23 O. H. PROFESSOR J. M. VAN VLECK. (VIII.)

Course XIV. is elective for those who have taken Courses V. and XIII.

Graduate Instruction.

Courses VIII., IX., X., XI., XII., and XIV. are intended for graduate students as well as for advanced undergraduates.

PHYSICS.

PROFESSOR CRAWFORD; DR. CADY.

I. ELEMENTARY PHYSICS. A general course, involving only elementary mathematics. Mechanics, Hydrostatics, Pneumatics. *Mon., Fri., at 10 (first half-year).* Heat, Sound, Light. *Mon., Wed., Fri., at 10 (second half-year).* PROFESSOR CRAWFORD. 25 O. H. (III.)

Course I. is required of Classical Sophomores, and of Latin-Scientific Sophomores and Scientific Freshmen who did not pass in physics on admission to college.

II. ELEMENTARY PHYSICS. Electricity and Magnetism. This course is supplementary to Course I. It includes also some experimental work in the laboratory. *Tu., Th., at 11.* 25 O. H. DR. CADY. (X.)

Course II. is elective for those who have taken, or are taking, Course I.

III. PRACTICAL PHYSICS. Elementary experiments in mechanics, sound, heat, and light. This course is intended for those who purpose to teach physics, and also as an introductory course for those who expect to take further laboratory work. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (any two of these hours at the discretion of the student).* PROFESSOR CRAWFORD.

Course III. is elective for those who have taken, or are taking, Course I.

IV. ELECTRICAL MEASUREMENTS. Experimental work in the electrical laboratory. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* DR. CADY.

Course IV. is elective for those who have taken Course II.

Courses III. and IV. are parallel. With the consent of the instructors, a student may take a half-year of each.

[V.¹ SOUND. A course of lectures, with collateral readings and experimental illustrations. *Twice a week (first half-year).* PROFESSOR CRAWFORD.]

Course V. is elective for those who have taken Course I. It is omitted the present year.

[VI.¹ HEAT. A general elementary treatment of the subject. *Twice a week (first half-year).* PROFESSOR CRAWFORD.]

Course VI. is elective for those who have taken Course I. It is omitted the present year.

[VII.* THERMO-DYNAMICS. A continuation of Course VI., mainly conducted by lectures, of which an abstract is furnished. *Twice a week (second half-year).* PROFESSOR CRAWFORD.]

Course VII. is elective for those who have taken Course VI. in physics, and who have taken, or are taking, Course V. in mathematics. It is omitted the present year.

VIII. APPLIED ELECTRICITY. Text-book and lectures. The first half-year is devoted to the theory and construction of dynamos and motors. In the second half-year the subjects studied include electric lighting, power transmission, electric railways, the telephone, telegraph, Röntgen rays, and other applications of electricity. *Wed., Fri., at 11.* 25 O. H. DR. CADY. (IV.)

Course VIII. is elective for those who have taken Course II.

IX. LIGHT. The first half-year is given mainly to geometrical optics, the second to the wave theory of light. *Mon., Wed., at 12.* PROFESSOR CRAWFORD. (V.)

Course IX. is elective for those who have taken Course I. in physics and who have taken, or are taking, Course V. in mathematics.

X. PRACTICAL PHYSICS. A continuation of Course III., consisting of exact measurements in mechanics, heat, sound, and light, and involving such work as the use of the reversion pendulum, the determination of coefficients of elasticity, the use of the air thermometer, the determination of wave-lengths of light, indices of refraction, etc. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* PROFESSOR CRAWFORD.

Course X. is elective for those who have taken Course III.

XI. EXPERIMENTAL ELECTRICITY. A continuation of Course IV. The study and testing of dynamos, motors, and other electrical apparatus forms a large part of the work. Opportunity is afforded for some shop-work and for practical experience in running an engine and dynamos. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* DR. CADY.

Course XI. is elective for those who have taken Courses IV. and VIII.

XII. THEORETICAL ELECTRICITY. This course is based on J. J. Thomson's Mathematical Theory of Electricity and Magnetism. *Tu., Th., at 9.* DR. CADY. (VIII.)

Course XII. is elective for those who have taken Course II. in physics and Course V. in mathematics.

[XIII. ALTERNATING CURRENTS. Text-book and lectures. *Twice a week.* DR. CADY.]

Course XIII. is elective for those who have taken, or are taking, Course VIII. in physics and Course V. in mathematics. It is omitted the present year.

XIV. ADVANCED EXPERIMENTAL ELECTRICITY. A continuation of Course XI. Opportunity is afforded for extended investigation of problems connected with alternating currents, and also for the experimental study of other important problems in electricity. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* DR. CADY.

Course XIV. is elective for those who have taken Course XI. and either Course XII. or Course XIII.

XV. JOURNAL MEETING. The instructors of the department meet the graduate students and advanced undergraduates for the purpose of reporting and discussing articles from the current journals of general physics and electricity. *Once a week.* 25 O. H.

CHEMISTRY.

PROFESSORS ATWATER AND BRADLEY; ASSOCIATE PROFESSOR BENEDICT.

I.¹ ELEMENTARY CHEMISTRY. This course is devoted to the elementary principles of the science. Each student performs a considerable number of experiments in the laboratory. *Tu., Wed., Th., at 10 (first half-year).* 3 J. H. PROFESSORS ATWATER AND BRADLEY. (IX.)

Course I. is required of Classical Sophomores, and of Latin-Scientific Sophomores and Scientific Freshmen who did not pass in chemistry on admission to college.

II.² ELEMENTARY CHEMISTRY. A continuation of Course I. A course of lectures on the general principles and some of the applications of chemistry. *Tu., Th., at 10 (second half-year).* 3 J. H. PROFESSOR ATWATER. (IX.)

Course II. is elective for those who have taken Course I.

III. QUALITATIVE ANALYSIS. A laboratory course in basic, acid, and blow-pipe analysis. Lectures are given on the chemical problems involved in the detection of the more common metals. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week)*. CHEM. LAB. PROFESSOR BRADLEY.

Course III. is elective for those who have taken Courses I. and II.

IV. QUANTITATIVE ANALYSIS. A laboratory course in quantitative analysis and special laboratory exercises adapted to the wants of individual students. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week)*. CHEM. LAB. PROFESSORS ATWATER AND BENEDICT.

Course IV. is elective for those who have taken Course II. and either Course III. or Course X.

V. ORGANIC CHEMISTRY. Lectures and recitations. The principles of organic chemistry as illustrated by the derivatives of methane and benzene. *Mon., Wed., Fri., at 8*. J. H. PROFESSOR BRADLEY. (I.)

Course V. is elective for those who have taken either Course III. or Course X.

VI.¹ PHYSIOLOGICAL CHEMISTRY. Lectures on selected chapters of physiological chemistry. Especial attention is given to the chemistry of the animal body. *Tu., Th., at 11 (first half-year)*. J. H. PROFESSOR ATWATER. (X.)

Course VI. is elective for those who have taken Course II. It is desirable that those who elect it should also elect Course V.

*VII. ORGANIC CHEMISTRY. A laboratory course devoted to the preparation of compounds of carbon. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week)*. CHEM. LAB. PROFESSOR BRADLEY.

Course VII. is elective, with the permission of the instructor, for those who have taken, or are taking, Course V.

*VIII. PHYSIOLOGICAL CHEMISTRY. A laboratory course in the preparation of compounds and in methods of analysis of interest in physiological chemistry. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week)*. CHEM. LAB. PROFESSORS ATWATER AND BENEDICT.

Course VIII. is elective, with the permission of the instructors, for those who have taken, or are taking, Courses V. and VI.

Courses VI. and VIII. are recommended to those who purpose to study medicine.

IX. THEORETICAL CHEMISTRY. A series of lectures upon the origin, development, and present status of the theory of the atom and molecule. *Mon., Fri., at 9.* 3 J. H. PROFESSOR BRADLEY. (II.)

Course IX. is elective for those who have taken either Course III. or Course X.

*X. PRINCIPLES OF GENERAL AND ANALYTICAL CHEMISTRY. A laboratory course, involving a study of the properties and reactions of typical elements and compounds, based upon the periodic classification of the elements. Experimental demonstration of chemical laws and especially of the principles of analysis. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week).* CHEM. LAB. PROFESSOR BENEDICT.

Course X. is elective, with the permission of the instructor, for those who have taken Course I.

*XI.² LIQUEFACTION OF GASES. Lectures, with experimental demonstrations, upon the history and theory of the liquefaction of gases, and upon some of the more important results of research at low temperatures. *Tu., Th., at 8 (second half-year).* 3 J. H. PROFESSOR BRADLEY. (VII.)

Course XI. is elective, with the permission of the instructor, for those who have taken Course I.

*XII. CHEMICAL SEMINARY. A course of instruction and reading in biological chemistry. *Tu., Th., at 4.* PROFESSOR ATWATER.

Course XII. is elective, with the permission of the instructor, for those who have taken, or are taking, Courses V. and VI.

Graduate Instruction.

Course XII., although elective for undergraduates, is designed chiefly for graduates.

Laboratory courses of research in physical, physiological, and organic chemistry may be arranged.

GEOLOGY.

PROFESSOR RICE.

I. GEOLOGY. Elementary course. A course of lectures, chiefly on dynamical and structural geology. Dana's Revised Text-book of Geology is recommended for reference. *Tu., Th., at 12.* 8 J. H. (XI.)

Course I. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores.

II.² DYNAMICAL AND STRUCTURAL GEOLOGY. Advanced course. Recitations and lectures, with Scott's Introduction to Geology, and Dana's Revised Text-book of Geology, as text-books. Special topics for study, with bibliographical references, are assigned to each member of the class. Lectures on these topics by the members of the class are discussed and criticised. Excursions are taken on Saturdays during the fall. The phenomena observed in an excursion are discussed at the next meeting of the class, one of the members of the class generally giving a report or lecture. *Mon., Wed., Fri., at 12 (first half-year), counting as four hours a week.* 8 J. H. (V.)

Course II. is elective for those who have taken Course I. It is very desirable, however, that those who take this course should also have taken the course in physical geography.

III.² HISTORICAL GEOLOGY AND PALEONTOLOGY. Recitations and lectures, with same text-books as in Course II. Excursions are taken on Saturdays during the spring (required only of those who take also Course II.). *Mon., Wed., Fri., at 12 (second half-year), counting as four hours a week for those who take also Course II.* 8 J. H. (V.)

Course III. is elective for those who have taken Course I. It is very desirable, however, that those who take this course should also have taken the courses in zoölogy and botany.

IV. PHYSICAL GEOGRAPHY. Recitations and lectures, with Dryer's Lessons in Physical Geography as a text-book. *Fri., at 3.* 8 J. H. (VI.)

Course IV. (in connection with II. and III. Biology) is elective for Classical Sophomores, and is required of Latin-Scientific and Scientific Freshmen who did not pass in physical geography on admission to college.

V.¹ MINERALOGY. Crystallography and optical mineralogy. Lectures and practical exercises. Dana's Text-book of Mineralogy is used for reference. *Mon., at 3; Tu., Th., at 9 (first half-year).* 8 J. H. (VIII.)

Course V. is elective for Classical and Latin-Scientific Juniors and Scientific Sophomores.

VI.² MINERALOGY. Determinative and descriptive mineralogy. Laboratory work in determinative mineralogy, lectures on descriptive mineralogy. Brush and Penfield's Manual of Determinative Mineralogy, and Dana's Text-book of Mineralogy, are used for reference. *Mon., at 3; Tu., Th., at 9 (second half-year).* 8 J. H. (VIII.)

Course VI. is elective for those who have taken Course V.

Graduate Instruction.

Courses II., III., V., and VI., although intended primarily for undergraduates, have often been taken by graduate students.

Additional work is provided for graduate students. This may include courses of reading in various branches of geological science, field work, or laboratory work.

BIOLOGY.

PROFESSOR CONN.

I. PHYSIOLOGY. The instruction is given chiefly by lectures, Martin's Human Body being used as a text-book. Enough anatomy is given to render the physiological discussions intelligible, and enough hygiene to guide to an intelligent care of the body. *Mon., Wed., at 8.* 8 J. H. (I.)

Course I. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores.

II.¹ GENERAL BIOLOGY. This course is devoted to the study of the simpler laws of life, and the relations of animals and plants. Practical study is made of the earthworm, the frog, and some common plants, which are used as illustrating the general structure and physiology of animals and plants. This course is designed as an introduction to the study of botany, zoölogy, and physiology. *Mon., Wed., 2-4 (first half-year), counting as one hour for the year.* 8 J. H. (VI.)

Course II. (in connection with IV. Geology and III. Biology) is elective for Classical Sophomores, and is required of Latin-Scientific and Scientific Freshmen.

III.² BOTANY. This course is a continuation of Course II., and consists of lectures and recitations, and of a large amount of practical work. It includes the study of physiological, morphological, structural, and microscopic botany. The course begins with the study of cryptogams, followed by a study of phenogams. The last four weeks are devoted to the analysis and description of flowers. Coulter's Plant Structures is used as a text-book. *Mon., Wed., 2-4 (second half year), counting as one hour for the year.* 8 J. H. (VI.)

Course III. (in connection with IV. Geology and II. Biology) is elective for Classical Sophomores, and is required of Latin-Scientific and Scientific Freshmen who did not pass in botany on admission to college.

IV. ZOÖLOGY. Lectures and recitations. Typical examples, illustrating the various groups of the animal kingdom, are studied, attention being given rather to the general laws governing living beings than to the systematic classification of species. The course includes the embryology of the various forms studied, as well as their adult anatomy. The last term is devoted to the study of comparative anatomy and general zoölogical problems. *Mon., Wed., at 9.* 8 J. H. (II.)

Course IV. is elective for Classical Juniors and for Latin-Scientific and Scientific Sophomores.

*V. PRACTICAL BIOLOGY. The design of the courses in practical biology is to furnish opportunity for special biological work along such lines as may be best adapted to the future plans of the student. Those intending to study medicine devote their attention largely to physiology, histology, and the dissection of some mammal. Those desiring a more general course make a brief examination of various groups of the animal and vegetable kingdoms.

Those electing the study for more than one year, spend the first year in the study of biology in general, making a careful study of illustrative types of the different groups of the animal and vegetable kingdoms, such as amœba, infusoria, hydra, earthworm, bacteria, yeast, mould, lichens, mosses, flowering plant, etc. The laboratory work is planned to illustrate, as far as possible, the principles of biology, comparative anatomy, and embryology. Each exercise occupies 2½ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* BIOL. LAB.

Course V. is elective, with the permission of the instructor, for Sophomores.

VI. PRACTICAL BIOLOGY. The second year in practical biology is devoted to the study of histology, bacteriology, embryology, and mammalian anatomy. During the second half-year each student may pursue some special work assigned by the instructor. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week)*. BIOL. LAB.

Course VI. is elective for those who have taken Course V.

VII. PRACTICAL BIOLOGY. A course in laboratory work in continuation of Course VI. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week)*. BIOL. LAB.

Course VII. is elective for those who have taken Course VI.

Courses V.-VII. are accompanied by frequent lectures and recitations. The outline of the courses is somewhat variable and is determined according to the purposes and needs of each student.

VIII.¹ EVOLUTION. A course of lectures and recitations, giving an outline of the general theory of evolution. *Tu., Th., at 8 (first half-year)*. L. CH. (VII.)

Course VIII. is elective for Juniors.

[IX.¹ BACTERIOLOGY. Conn's Agricultural Bacteriology is used as a text-book, and is supplemented by lectures on pathological bacteriology. *Twice a week (first half-year)*.]

Course IX. is elective for Juniors. Courses VIII. and IX. are given in alternate years, Course IX. being omitted the present year.

EXAMINATION GROUPS.

A student is allowed to take two courses in any one of these groups, provided the hours of recitation do not conflict. A student who elects two courses in the same group, which are given in the same half-year, must take examinations in both courses on the same day. Courses in the same department belonging in the same group, but not given in the same half-year, are bracketed together. The following courses are not assigned to any group, and they may be elected without limitation: VI., VII., XI. Latin; III., V. Greek; III., VI., IX. German; Spanish; Debate; III. English Language; VI. History; VIII. Economics; X. Philosophy; III., IV., X., XI., XIV., XV. Physics; III., IV., VII., VIII., X., XII. Chemistry; V., VI., VII. Biology.

I.—*M., W., F., at 8.*

- I. German.
- VI. French, *W.*
- Advanced Italian, *F.*
- VI. English Literature, *F.*
- { IV. English Language, *M., W.*
- { V. English Language, *M., W.*
- IX. Philosophy, *F.*
- VIII. Mathematics, *M., W.*
- V. Chemistry.
- Physiology, *M., W.*

II.—*M., W., F., at 9.*

- I. Latin, *also Th.*
- X. Latin, *W., F. (1st half-year).*
- II. English Literature.
- IV. History.
- IX. Chemistry, *M., F.*
- Zoölogy, *M., W.*

III.—*M., W., F., at 10.*

- I. Greek, *T., W., Th., F.*
- Psychology (*1st half-year*).

- { Ethics, *W., F.*
- { Evidences, *W., F.*
- I. Physics.

IV.—*M., W., F., at 11.*

- II. German.
- IV. English Literature, *M. W.*
- I. Economics, *M., W.*
- V. Philosophy, *F. (1st half-year).*
- { VII. Philosophy, *M., W.*
- { VIII. Philosophy, *M., W.*
- IV. Mathematics, *W., F.*
- Astronomy, *W., F.*
- VIII. Physics, *W., F.*

V.—*M., W., F., at 12.*

- IV. Greek.
- VII. German, *M.*
- I. French.
- I. English Literature, *M., W.*
- I. Mathematics, *M., T., Th., F.*
- IX. Mathematics, *M., W., also F. at 2.*
- IX. Physics, *M., W.*
- { II. Geology.
- { III. Geology.

- VI.—*M., W., F., at 3.* { I. Chemistry, *also W.*
 VI. English Language, *M.* { II. Chemistry.
 VII. English Language, *W., F.*
 III. History. X.—*T., Th., at 11.*
 Physical Geography, *F.* { II. Latin.
 { General Biology, *M., W.* { III. Latin.
 { Botany, *M., W.* X. English Language.
 V. Economics.
 VII.—*T., Th., at 8.* { XI. Philosophy.
 II. French. { XII. Philosophy, *also F.*
 I. English Language, *T., also* II. Mathematics.
M., T., at 9. II. Physics.
 XI. Chemistry (*2d half-year*). VI. Chemistry (*1st half-year*).
 Evolution (*1st half-year*).
- VIII.—*T., Th., at 9.* XI.—*T., Th., at 12.*
 { IV. Latin. IX. Latin (*1st half-year*).
 { V. Latin. II. Greek.
 V. German. III. Elocution, *Th.*
 VI. Economics. V. Mathematics, *also F.*
 XIV. Mathematics. XII. Mathematics.
 XII. Physics. I. Geology.
 Mineralogy, *also M., at 3.*
- IX.—*T., Th., at 10.* XII.—*T., Th., at 3.*
 VIII. Latin (*1st half-year*). VIII. German, *T.*
 IV. French. II. Elocution.
 Logic (*2d half-year*). I. History.
 { IV. Philosophy. III. Philosophy.
 { VI. Philosophy.

SELECTION OF STUDIES.

The studies which are required of students in the respective classes and courses are indicated below. In addition to these, each student of the three upper classes is required to elect such a number of studies that his *average* number of recitations and lectures a week for the year, exclusive of rhetorical exercises, shall be not less than 14 nor more than 17. The minimum requirement for Freshmen is 15 recitations and lectures a week for the year, exclusive of declamations; the maximum is 17. Elections must be made in accordance with the restrictions specified in the description of the respective courses in the foregoing statement of the courses of instruction.

SCHEDULE OF REQUIRED STUDIES.

N. B.—The numbers in *italics* indicate the average number of hours a week for the year.

CLASSICAL COURSE.

FRESHMEN:—I. Latin, *4*; I. Greek, *4*; I. Mathematics, *4*; I. English Language, *2*; I. German, or I. French, *3*.

SOPHOMORES:—Logic, *1*; I. Physics, *2½*; I. Chemistry, *1½*.

JUNIORS:—Psychology, *1½*; I. Economics, *2*. (I. Economics may be postponed to the Senior year, or may be taken, with the permission of the instructor, in the Sophomore year.)

SENIORS:—Ethics, *1*; Evidences of Christianity, *1*.

LATIN-SCIENTIFIC COURSE.

FRESHMEN:—I. Latin, 4; I. Mathematics, 4; I. English Language, 2; Physical Geography, General Biology, and Botany, 3; I. or II. French, or I. or II. German, 2 or 3. (See page 42.)

SOPHOMORES:—Logic, 1; I. Physics, 2½; I. Chemistry, 1½.

For such part of the courses in science or modern languages above named as students may have passed in at entrance, they are allowed to substitute enough elective work to fill out the required quota of exercises a week.

JUNIORS:—Psychology, 1½; I. Economics, 2. (See requirements for classical course.)

SENIORS:—Ethics, 1; Evidences of Christianity, 1.

SCIENTIFIC COURSE.

FRESHMEN:—Not less than fifteen hours a week of the following courses: I. Mathematics, 4; I. English Language, 2; I. German, 3, and II. French, 2, or II. German, 3, and I. French, 3 (see page 42); I. Physics, 2½; I. Chemistry, 1½; Physical Geography, General Biology, and Botany, 3.

For such of these studies as students may have passed in at entrance, they are allowed to substitute elective work.

SOPHOMORES:—II. German, 3, or II. French, 2 (see page 42); Logic, 1; Astronomy, 2; Geology, 2; Physiology, 2.

JUNIORS:—Psychology, 1½; I. Economics, 2. (See requirements for classical course.)

SENIORS:—Ethics, 1; Evidences of Christianity, 1.

In addition to the courses indicated in the foregoing statement, exercises in English composition and in public speaking are required of Freshmen and Sophomores, exercises in English composition of Juniors, and exercises either in English composition or in public speaking of Seniors. (See pages 44, 45, 47.)

DAILY PROGRAM.

The order of lectures and recitations is set forth in the table given on pages 70 and 71. In that table the sign (*) indicates that an exercise occurs only occasionally, the particular days to be announced by the instructor. Roman numerals preceding the names of certain studies refer to the numbers of the courses as enumerated in the foregoing statement of courses of instruction. Arabic numerals, following the names of certain studies, indicate the sections into which the classes are divided.



[illegible]

3.	<p>VI. Latin. I. French, 2. VI. English Language. III. History. III., IV., VII., VIII., X. Chemistry. Mineralogy. General Biology (1st half). Botany (2d half).</p>	<p>VIII. German. II. Elocution. III. History. III. Philosophy. III., IV., X., XI., XIV. Physics. V., VI., VII. Biology.</p>	<p>Declamation (Soph., S). VII. Latin. I. French, 2. VII. English Language. III. History. III., IV., X., XI., XIV. Physics. III., IV., VII., VIII., X. Chemistry. General Biology (1st half). Botany (2d half). V., VI., VII. Biology.</p>	<p>II. Elocution. I. History. III. Philosophy. III., IV., X., XI., XIV. Physics. V., VI., VII. Biology.</p>	<p>I. French, 2. VII. English Language. III. History. III., IV., VII., VIII., X. Chemistry. Physical Geography.</p>
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GENERAL REGULATIONS.*

QUOTA OF STUDIES.

For students of the three upper classes, the quota of regular studies is not less than fourteen hours nor more than seventeen hours of class-room work a week, exclusive of rhetorical exercises. The quota for Freshmen (see pages 67 and 68) varies from fifteen to seventeen hours of class-room work a week, exclusive of declamations. No student is allowed to take less than fourteen hours nor more than seventeen hours of work a week without special permission from the Faculty.

GRADES.

The general character of the work of each student in each study is indicated by his assignment to one of five grades, grade 1 denoting the highest excellence, and grade 5, failure to pass. The Secretary of the Faculty sends to each student, within three weeks after Commencement, a report of his grades in all the studies which he has taken during the year.

EXAMINATIONS.

Regular examinations are held at the end of the college year, and during a specified period in February. No student who has been absent from fifteen per cent. or more of the required exercises in any study can be admitted to examination in that study, except by special permission from the Faculty. Such permission may be accorded when the Faculty are convinced that the absences have not been due to culpable negligence. In the application of this rule, absences from the first or the last exercise of a term in any study, or consecutive absences including the first or the last exercise, are each reckoned as two absences.

* Copies of the detailed Regulations may be obtained from the Secretary.

To students who, for any reason, have not passed at a regular examination, opportunities for special examinations are given at specified times. A student who fails to pass a final examination in any study before that study is taken up by the next succeeding class, is required, unless specially excused therefrom, to recite with that class. If, at the close of the special examinations held at the beginning of the year, a student is deficient by an amount equivalent to six or more hours of work a week for a year, he is ranked with the next lower class, unless specially excused therefrom by the Faculty.

ENTRANCE CONDITIONS.

A student who fails to make up entrance conditions before the first day of November of the next college year, is excluded from all recitations until the conditions are made up.

PUBLIC WORSHIP.

Devotional services, at which the attendance of students is required, are held in Memorial Chapel every morning.

Every student is required to attend the Sunday morning service in some one of the churches in the city.

Voluntary religious services under the direction of the Young Men's Christian Association are held weekly.

ATHLETIC AND MUSICAL ORGANIZATIONS.

No member of the Senior or Junior class who is deficient in his college work more than two hours a week for a year, and no member of the Sophomore class who is deficient more than three hours a week for a year, is allowed to take part, as a member of a University athletic team, in any athletic contest, except by special permission; and any student whose college work becomes unsatisfactory at any time during the year may be debarred from taking part in such a contest.

Members of the college musical organizations, who are deficient as specified in the preceding paragraph, are not allowed to appear in public concerts given by those organizations.

No student under censure is allowed to serve, without permission of the Faculty, in any capacity on an athletic organization or on a musical association giving public concerts.

LEAVE OF ABSENCE.

A student who desires excuse from college exercises on account of absence from town must apply to the President for permission to be absent, and, unless the circumstances of the case render it impracticable, such permission must be obtained before the student's departure.

EXPENSES.

The annual charges in the Treasurer's bill are as follows:—

Tuition,	-	-	-	-	-	-	-	\$75	00
Rent and care of half-room, unfurnished, from \$18									
to \$40; average,	-	-	-	-	-	-	-	29	00
Steam heat; average for half-room,	-	-	-	-	-	-	-	8	00
Incidentals (lighting, heating, and care of public									
rooms, gymnasium fee, etc.),	-	-	-	-	-	-	-	27	00
Use of library and reading-rooms,	-	-	-	-	-	-	-	6	00
Total,	-	-	-	-	-	-	-	\$145	00

For the laboratory courses in physics, chemistry, and biology, fees are charged, which vary with the nature of the course and with the number of exercises elected per week. The fee for each exercise per week in practical physics, in practical biology, and in III., VIII., and X. Chemistry, is five dollars; in IV. Chemistry, eight dollars; and in VII. Chemistry, ten dollars. In the chemical courses named, a moderate additional charge is made for breakage.

Women students must reside in the Women's Hall unless they live in their own homes in the city. Those residing in the Women's Hall are charged at the rate of five dollars and a half a week for board and room-rent. Those residing in the city are charged two dollars a term for the use of the study-room in the Women's Hall.

A diploma fee of five dollars is charged to each student at graduation.

A diploma fee of ten dollars is charged to each graduate student upon promotion to the Master's degree.

The college bills are payable at the commencement of each term; a rebate of one dollar is made on all college bills that are paid on or before the day appointed. Unless the bill for any term is paid, or payment thereof guaranteed, before the commencement of the following term, the student is liable to exclusion from recitations.

No student can have an honorable dismissal, or certificate of progress in his studies, until his bills are paid or payment thereof guaranteed.

A student who is absent from college on account of sickness, or for other cause, and who retains his place in his class, must pay the full college bills during his absence.

The rooms in the college buildings are rented to students during term time only, and must be vacated at the close of the third term. Students are held accountable for any damage done to their rooms. During the summer vacation the rooms are put in order, and the expense charged to the occupants.

Male students are permitted to take lodgings in town, but the places in which they room or board are in all cases subject to the approval of the Faculty. If any of the rooms in the college are thus left vacant, the rent of such rooms may be charged to holders of free scholarships who room in town.

Board may be obtained in private families at prices varying from \$3.75 to \$5.00 a week. The college fraternities maintain clubs which supply board to their members at prices ranging from \$3.00 to \$4.00 a week. The price of board at the college commons is \$2.35 a week.

Other expenses incident to college life vary with the habits and circumstances of the student. They are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and health have been compelled to leave the college for want of money.

THE COMMONS.

In order to reduce the expense of a college course, the college has established a commons, where board may be obtained at a low rate. The building known as the Foss House has been fitted up for the use of the commons, and a new dining-hall has been built in the rear

affording accommodation for about one hundred boarders. There is also a sitting-room which serves as a library and reading-room. The upper rooms of the house are rented unfurnished for dormitory purposes, at lower rates than the rooms in North College.

The members of the commons have organized a social and literary club, which meets once a week and gives some attention to debate and to various literary exercises.

The college is responsible for the general management of the commons, the details being in charge of a matron who is responsible to a college officer. Bills are paid into the college treasury, and the college assumes all financial responsibility. The rate of board has been fixed at two dollars and thirty-five cents a week.



MATERIAL EQUIPMENT.

LIBRARY AND READING-BOOMS.

THE LIBRARY in Rich Hall contains about sixty-three thousand volumes. The library is open every week-day of the college year from 8:15 A. M. to 10 P. M. Students are allowed direct access to the shelves. Copies of the library rules may be obtained from the Librarian.

On the first floor of North College is a reading-room, provided with daily and weekly newspapers. Another reading-room, on the second floor of Rich Hall, contains the current issues of the most important magazines, journals, and reviews, literary and scientific, American and foreign.

ASTRONOMICAL OBSERVATORY.

THE OBSERVATORY is used for purposes of instruction, and is well equipped therefor. Students in astronomy have frequent opportunities to examine the most interesting celestial objects through the telescope; and members of the class in practical astronomy are instructed in the theory and use of all the instruments in the observatory.

The principal instruments are an equatorial of twelve inches aperture, by Alvan Clark & Sons, provided with a filar micrometer, a polarizing photometer, and spectroscopes, solar and stellar, two of which have very high dispersive power; a transit instrument of three inches aperture, with collimators of the same aperture, and adapted to use as a zenith telescope; a prime vertical instrument of the same size; sextants; two astronomical clocks; a chronometer; and a chronograph.

LABORATORIES AND APPARATUS.

THE LABORATORY OF EXPERIMENTAL PSYCHOLOGY contains a collection of apparatus for illustration and experiment in the field of physiological and experimental psychology. The equipment is sufficient for a thorough elementary course and for some advanced

research, particularly in the psychology of vision. Among the principal pieces of apparatus are models of the nervous system, a Hipp chronoscope, Helmholtz's rotation apparatus, Schumann's "Zeitsinn" apparatus, a chronograph, a pendulum-tachistoscope, an ocular kinetograph, a sphygmograph, a plethysmograph, stereoscopes, tuning-forks, electrical supplies, etc. The laboratory occupies at present No. 7 South College.

THE PHYSICAL LABORATORY is equipped with apparatus for the performance of the experiments usually undertaken in undergraduate courses. In the department of electricity, facilities are afforded for instruction in the use of the most important electrical instruments and machines, and for extended tests and investigations. The laboratory work in all departments except electricity is carried on in Observatory Hall. The electrical work is carried on partly in the dynamo-room and partly in a separate laboratory closely adjacent. The dynamo-room contains a 25 horse-power engine, several dynamos and motors, transformers, and a variety of testing instruments.

By the munificence of Mr. Charles Scott and Mr. Charles Scott, Jr., of Philadelphia, Pa., provision has been made for a new and commodious physical laboratory which will be erected during the current college year.

THE CHEMICAL LABORATORY occupies seven rooms in Judd Hall. A large working-room on the first floor, with a balance room adjoining, furnishes accommodations for about fifty students, and smaller rooms afford conveniences for the work of instructors, assistants, and graduate students. Two other rooms on the first floor are used for library, seminary, and office purposes. A large room in the basement serves for the laboratory work of the required course in elementary chemistry.

THE CRYOGENIC LABORATORY furnishes facilities for demonstration and for research at low temperatures. Its main equipment consists of a complete liquid air plant, including a 15 horse-power oil motor, a Norwalk compressor capable of delivering air at a pressure of 3,000 pounds, and a liquefier.

THE BIOLOGICAL LABORATORY occupies six rooms in Judd Hall, and is capable of accommodating about thirty students. Four rooms are used for general laboratory purposes, of which one is devoted to miscellaneous laboratory work, one to physiological work, one to coarse dissection, and one to bacteriological work. The laboratory

is equipped with all the apparatus necessary for elementary biological work, and is provided with an abundance of material for anatomical and histological study. The general laboratory room contains a type collection illustrating all orders of animals, and students are allowed to use the large museum collection for comparison and direct study.

THE MACHINE SHOP occupies the west room in the boiler house, and is in charge of a skilled mechanician. It affords facilities for the repair of apparatus belonging to the college, for the construction of new apparatus, and for the instruction of students who find a certain degree of mechanical skill necessary to complete their training in the scientific departments.

MATHEMATICAL MODELS. This collection, the gift of Ebenezer Hill, Esq., of the class of 1870, comprises a complete set of the models made by Brill of Darmstadt, for illustration in the higher branches of mathematics, as well as in mathematical physics and crystallography. The models are arranged in a series of cases in the mathematical reading-room in Observatory Hall.

GYMNASIUM AND ATHLETIC FIELD.

THE FAYERWEATHER GYMNASIUM is located on the north side of the rear campus, parallel with Wyllys Avenue. Its dimensions are 55 by 120 feet.

The basement contains two bowling alleys, a baseball cage, baths, lockers, and toilet rooms. On the first floor is the main hall of the gymnasium, which is well equipped and affords ample room for every variety of gymnastic exercise. The director's office and rooms for baths and lockers are also on the first floor. The running track is suspended from the roof, above the main floor. On the second floor is a trophy room, used also as a committee room by the various athletic organizations, as well as additional baths and lockers. Special attention has been paid to ventilation, drainage, and lighting, and the building is believed to contain the best features of a modern gymnasium.

The gymnasium is in charge of a competent director. Exercise in the gymnasium is required of the men of the Freshman and Sophomore classes, three hours a week, from Thanksgiving to the end of the winter term. Elective work in the gymnasium is offered to the men of the Junior and Senior classes.

THE ANDRUS FIELD lies in the rear of the main line of college buildings, just south of the gymnasium. A quarter-mile cinder track, with a "straight-away" of 200 yards, encircles one portion of the field, within which ample room is afforded for baseball, football, and field and track athletics. The entire field, covering seven acres, provides sufficient space for class and 'varsity teams to practice at the same time. Its proximity to the college enables the whole student body to keep in touch with the training in all branches of athletics, and affords the teams an opportunity to use the dressing rooms and baths reserved for them in the gymnasium.

A covered grand stand, capable of seating four hundred persons, has recently been erected at the southern end of the field.

MUSEUM.

THE MUSEUM OF NATURAL HISTORY AND ETHNOGRAPHY occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with special reference to their educational use, and are freely accessible to students.

The nucleus of the departments of zoölogy and botany was formed by the Shurtleff collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The Zoölogical Department received in the years between 1872 and 1881 most important accessions in liberal donations and exchanges from the Smithsonian Institution, and in collections made by the curators on the coast of New England, through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland also added large and valuable collections. Valuable collections of insects were presented by Richard L. de Zeng in 1896, and by Mrs. E. K. Hubbard in 1898. This department includes about thirteen thousand species. The vertebrata of North America, the marine invertebrata of New England, and the mollusca in general, are especially well represented.

The Herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many specimens from foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the University in 1879.

The Mineralogical Department includes about three hundred and fifty species, and a much larger number of varieties. The Franckfort collection, purchased in 1858, contains many choice specimens, mostly from European localities. The minerals of the interesting region in which Middletown is situated are well represented by collections commenced by the labors of Professor Johnston (1835-1868), and largely increased in later years. Important accessions were obtained in 1899 by collecting trips to Nova Scotia and to Herkimer County, N. Y.

The Geological Department includes collections in lithology, physical geology, and paleontology. The lithological collection received in 1897 a most valuable accession in the gift of a set of the educational series of rock specimens described in Bulletin No. 150 of the U. S. Geological Survey, presented by the Survey. A suite of Ward's casts of fossils, presented by Orange Judd, M. A., in 1871, serves an excellent purpose in the work of instruction, affording the student a representation of many remarkable forms of ancient life, actual specimens of which are rare or unique. A valuable collection of Tertiary fossils was received in 1887 from the Smithsonian Institution, in exchange for duplicate shells from the Shurtleff collection. The collections in paleontology have been very largely increased since 1893 by the work of the present curator in the vicinity of Middletown, at Valcour Island, Lake Champlain, in western Maryland, in the vicinity of Chattanooga, Tenn., Canon City and Florissant, Col., and Fossil, Wyo., and in Nova Scotia. A choice collection of European fossils, including a number of beautiful specimens from the lithographic limestone of Solenhofen, was received in 1895 from the Museum of Munich, in exchange for American fossils. The private collection of Mr. Loper, purchased for the museum in 1900, is very rich in fossil fishes and plants from the fossiliferous shales of the vicinity of Middletown.

The Ethnographical Department is especially rich in specimens illustrating the life of the Aborigines of North America. Important contributions of pottery, casts of implements, models of dwellings, and other objects have been received from the Smithsonian Institution. A very valuable collection of objects from burial mounds near Chattanooga, Tenn., was deposited in the museum in 1896 by A. R. Crittenden, and has since then been purchased. The department also possesses a valuable collection of pottery from the guano beds of Peru, presented by Joseph S. Spinney; an interesting collection of weapons and other objects from the South Sea Islands;

and valuable collections of objects illustrative of Chinese life and customs, presented by Rev. Marcus L. Taft, D. D., and by Mrs. W. W. Wilcox. The collection of coins numbers over 3,000, exclusive of duplicates. Included in this number is a collection of 1,750 Chinese coins, some of which are ancient and very rare, presented by Rev. Marcus L. Taft, D. D. The greater part of the ethnographical collection is at present arranged in the lower hall of the museum, with the collections in mineralogy and geology. The coins (with the exception of a small selection placed on exhibition in the museum) are kept in a case in the library, where they can be seen by students and others on special application. Small collections illustrative of classical archæology are kept in the seminary rooms.

The following is an approximate statement of the number of specimens in the various departments of the museum:—

DEPARTMENT OF ZOÖLOGY.

Mammals—skins mounted and unmounted,	-	-	-	200
alcoholic,	-	-	-	50
skulls and skeletons,	-	-	-	110
Birds—skins mounted and unmounted,	-	-	-	1,700
nests and eggs,	-	-	-	600
Reptiles,	-	-	-	350
Amphibians,	-	-	-	150
Fishes,	-	-	-	2,100
Insects—pinned and alcoholic,	-	-	-	6,500
nests, borings, etc.,	-	-	-	50
Crustacea,	-	-	-	1,500
Worms,	-	-	-	1,800
Mollusks—shells,	-	-	-	90,000
alcoholic,	-	-	-	4,000
Echinoderms,	-	-	-	1,000
Cœlentera,	-	-	-	1,700
Sponges and protozoa,	-	-	-	150

DEPARTMENT OF BOTANY.

Plants in herbarium,	-	-	-	10,700
Specimens of wood,	-	-	-	300
Miscellaneous botanical specimens,	-	-	-	1,100

DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks,	-	-	-	-	-	-	-	-	16,000
Fossils—Paleozoic,	-	-	-	-	-	-	-	-	11,500
Mesozoic,	-	-	-	-	-	-	-	-	3,000
Cenozoic,	-	-	-	-	-	-	-	-	3,000

DEPARTMENT OF ETHNOGRAPHY.

Miscellaneous ethnographic specimens,	-	-	-	-	-	-	-	-	2,900
Coins,	-	-	-	-	-	-	-	-	5,000

The museum is open to the public on Wednesday and Saturday afternoons.



SCHOLARSHIPS.

TUITION SCHOLARSHIPS.

Each year the Trustees place at the disposal of the President, for the benefit of needy and worthy students, a sum of money which is used to pay, in whole or in part, the charge for tuition.

In addition to these tuition scholarships are the following:—

THE JOHN EVANS SCHOLARSHIP.

This scholarship was founded by Mrs. Ann Evans in memory of her husband. The income is about one hundred dollars, and is given annually to that member of the Senior or Junior class who is named by the Board of Trustees, or by some authority to whom they may delegate the nomination. For this scholarship, only such students as are preparing themselves for the ministry, and are already licentiates in the Methodist Episcopal Church, can be candidates.

THE SQUIRE SCHOLARSHIP.

This scholarship was founded by Hon. Watson C. Squire, B. A. In accordance with its provisions, the income of \$5,000 is awarded to that member of the Senior class who passes the best examination in Greek, provided that the successful candidate devote the ensuing year to classical study, in residence in the University, or in connection with travel or residence abroad, at his option, subject to the approval of the Committee on Graduate Instruction.

THE JONES SCHOLARSHIP.

This scholarship was founded by Frank S. Jones, Esq. The income, amounting to fifty dollars, is available, at the discretion of the President, for the use of a deserving student who needs pecuniary assistance.

THE BILLINGS SCHOLARSHIP.

This scholarship was founded by William Perry Billings, Esq. The income, amounting to seventy-five dollars, is available, at the discretion of the President, to pay the tuition of a deserving student who needs pecuniary assistance.

COLLEGE HONORS.

PRIZES.

The Harrington Prize, the gift of Rev. Edmund Mead Mills, D. D., in memory of Professor C. S. Harrington, is awarded for the best essay on some specified subject in the department of history. The subject for the essay of 1903 is: The Part of Connecticut in the Framing of the Federal Constitution.

The Joseph D. Weeks Prize, the gift of Joseph Dame Weeks, M. A., is awarded for the best essay on some specified subject in the department of economics. The subject for the essay of 1903 is: The Present Growth of Socialism; its Extent and Significance. The essays must be left with the head of the department on or before the third Monday in May (May 18, 1903).

The Peirce Prize, the gift of Rev. Bradford K. Peirce, D. D., is awarded for excellence in natural science. It will be given in 1903 upon a special examination based on Course I. in geology. The subject of the examination in 1904 will be biology; in 1905, chemistry.

The Phi Beta Kappa Prize is awarded for excellence in Latin. It will be given in 1903 upon a special examination on the work of the course in the Annals of Tacitus, with an essay upon the use by Tacitus of the commentaries of Agrippina.

The G. Brown Goode Prize, the gift of Mrs. G. Brown Goode, is awarded for the best original investigation in the department of natural history.

No person who has once taken either the Harrington, the Joseph D. Weeks, the Phi Beta Kappa, or the G. Brown Goode prize, may compete for it again.

The Weeks Prize, the gift of Joseph Dame Weeks, M. A., is awarded for excellence in modern philosophy. It will be awarded in 1903 for the best examination in Courses VII. and VIII. in philosophy, and for additional work to be assigned by the instructor.

The Camp Prize, the gift of Samuel T. Camp, Esq., is awarded for excellence in English literature. It will be given in 1903 upon a special examination in Course I. in English literature.

The Johnston Prize, the gift of Rev. David G. Downey, D. D., in memory of Professor John Johnston, is awarded for excellence in electricity. It will be given in 1903 upon a special examination based on Course II. in physics.

The Spinney Prize, the gift of Mrs. Joseph Spinney, is awarded for excellence in Greek. It will be given in 1903 upon a special examination based in part on the first half of Course II. in Greek.

The Rice Prize, the gift of Rev. William Rice, D. D., is awarded for excellence in mathematics. It will be given in 1903 upon a special examination based on Course V. in mathematics.

Students who compete for either the Weeks, the Camp, the Johnston, the Spinney, or the Rice prize must do so during the year in which they regularly pursue the course or courses on which the examination for the prize is based.

The Wise Prize, the gift of Rev. Daniel Wise, D. D., is awarded to that member of the Senior class who excels in ethics.

The Walkley Prize, the gift of Webster R. Walkley, M. A.,—*in memoriam* David Hart Walkley, graduated June, 1878; died September 16, 1878,—is awarded to that member of the Junior class who excels in psychology. It will be awarded in 1903 for the best examination on the work of the required course in psychology, together with additional work to be assigned by the instructor.

The Sherman Prize, the gift of Rev. David Sherman, D. D., is awarded this year to that member of the Freshman class who excels in mathematics. The examination is based on Course I. in mathematics. The subject of the examination in 1904 will be Latin; in 1905, Greek.

The Ayres Prize, the gift of Daniel Ayres, M. D., LL. D., is awarded to that member of the Freshman class who is found upon a special examination, held shortly after the beginning of the college year, to have attained the highest excellence in the studies preparatory to admission to the classical course.

The Rich Prize, the gift of Mrs. Isaac Rich, is awarded to that member of the Senior class whose oration at Commencement is deemed best in composition and delivery. The orations must not

exceed twelve hundred words in length, and must be left with the Professor of English Literature on or before the second Tuesday preceding Commencement (June 23, 1903).

The Olin Prize, the gift of Mrs. Julia M. Olin, is awarded to that member of the Senior class who excels in English composition. The subject for the essay of 1903 is: Recent Tendencies in English and American Fiction. The subject for the essay of 1904 is: Ralph Waldo Emerson. Essays must be left with the Professor of English Literature on or before the first Monday of the third term (April 20, 1903).

Two prizes are awarded, as a first and second prize respectively, to the two members of the Junior class who present the best orations at the annual Junior Exhibition. In the award of these prizes, both the composition and the delivery of the orations are considered. The orations must be left with the Professor of the English Language on or before the first Saturday in the third term (April 18, 1903).

The Briggs Prize, the gift of James E. Briggs, Esq., is awarded to the student who excels in debate. No person who has once taken the Briggs prize may compete for it again.

The Parker Prize, the gift of Rev. John Parker, for excellence in declamation, is awarded to the best speaker in the Junior and Sophomore classes.

A second prize is awarded, in the same classes, for excellence in declamation; but, in the competition for it, selections of a dramatic character, and from poetry, are excluded.

The Hibbard Prize, the gift of Professor Ralph G. Hibbard, M. A., is awarded to that member of the Freshman class who excels in declamation.

The Taylor Prize, the gift of Rev. George Lansing Taylor, D. D., is awarded to that student who presents the best English poem. The poem must be left with the Professor of English Literature before the Senior examinations.

Competition for the Rich prize, the Junior Exhibition prizes, the Briggs prize, the Parker prize, the second prize for declamation, and the Hibbard prize, is limited to men.

The several committees of award will withhold any prize, if, in their judgment, none of the exercises presented in competition for it possess the requisite merit.

AWARD OF PRIZES, 1901-1902.

The Harrington Prize, to WILLIAM HARRY CLEMONS, 1902.

Committee of Award:—George Parker Winship, M. A., Librarian of the John Carter Brown Library, Providence, R. I.

The Joseph D. Weeks Prize, to EVERETT LYNN THORNDIKE, 1902.

The Peirce Prize, to FRANKLIN STILES DURSTON, 1902.

Committee of Award:—Charles Ford Langworthy, Ph. D., of the office of Experiment Stations, Washington, D. C., and Paul Ingold Murrill, Ph. D., of Middletown.

The Phi Beta Kappa Prize, to ALEXANDER JAMES INGLIS, 1902.

The Weeks Prize, to EVERETT LYNN THORNDIKE, 1902.

The Greek Archaeology Prize, to EVERETT LYNN THORNDIKE, 1902.

The Camp Prize, to KENNETH MACKERNESS GOODE, 1904.

The Johnston Prize, to GEORGE WILBUR HARTWELL, 1903, and GEORGE MARVIN WARNER, 1903.

The Spinney Prize, to PAUL NIXON, 1904.

Committee of Award:—Professor William Nickerson Bates, Ph. D., of the University of Pennsylvania.

The Rice Prize, to ROY SMITH HURD, 1904.

The Wise Prize, to EVERETT LYNN THORNDIKE, 1902.

The Walkley Prize, to GEORGE MARVIN WARNER, 1903.

The Sherman Prize, to STUART FREEMAN HANCOCK, 1905.

Committee of Award:—Same as for the Spinney Prize.

The Rich Prize, to PHILIP PRESCOTT FROST, 1902, and JAMES WISWELL MUDGE, 1902.

Committee of Award:—Rev. Frank Mason North, D. D., of New York, N. Y.; Rev. Saul Ober Curtice, Ph. D., of New Rochelle, N. Y.; and Professor Charles Hubbard Judd, Ph. D., of the University of Cincinnati.

The Olin Prize, to PHILIP PRESCOTT FROST, 1902.

Committee of Award:—Professor Arthur Martin Wheeler, LL. D., of Yale University.

The First Junior Exhibition Prize, to OLIN MASON CAWARD, 1903.

Committee of Award:—Rev. Frederick William Greene, B. A., of Middletown; Hon. Silas Arnold Robinson, of Middletown; and Mr. Heman Charles Whittlesey, B. A., of Middletown.

The Second Junior Exhibition Prize, to JAMES GARFIELD BERRIEN, 1903.

Committee of Award:—Same as for the First Junior Exhibition Prize.

The Briggs Prize, to JOHN WILLIAM LANGDALE, 1903.

The Parker Prize, to OLIN MASON CAWARD, 1903, and HAROLD EDMUND WILSON, 1904.

Committee of Award:—Rev. William Henry Kidd, B. A., of Bridgeport; Rev. Francis Theodore Brown, B. A., of Middletown; and Rev. Oliver Henry Raftery, M. A., of Portland.

The Second Prize in Elocution, to GEORGE THURSTON AMES, 1903.

Committee of Award:—Same as for the Parker Prize.

The Hibbard Prize, to DANIEL ROY FREEMAN, 1905.

Committee of Award:—Same as for the Parker Prize.

The Taylor Prize, to HENRY ADELBERT WHITE, 1904.

The Ayres Prize, for the current year, to FRANK EGGLESTON ROBINS, 1906, prepared at the Westfield (Mass.) High School.

APPOINTMENTS FOR JUNIOR EXHIBITION AND COMMENCEMENT.

The Junior Exhibition is held on the third Thursday evening of the spring term (April 30, 1903). The speakers are selected from the men of the Junior class according to their grade in composition and declamation subsequent to the Freshman year. The speakers at Commencement are selected from the men of the Senior class according to their grade in the rhetorical exercises of the Junior and the Senior year, the declamations of the Sophomore year, and Course II. in elocution. The grades of those students who elect, and of those who do not elect Course II. in elocution, are reduced to the same scale for the purpose of this selection. The number of speakers at each of these public exercises is limited to eight.

The speakers last year were:—

JUNIOR EXHIBITION.

ZIRA PLATT BENNETT, ARCHIBALD CAMPBELL MCKILLOP,
JAMES GARFIELD BERRIEN, WILLIAM EDWARD HULBERT MATHISON,
OLIN MASON CAWARD, ROBERT HENRY RIPPERE,
JOHN WILLIAM LANGDALE, GEORGE FRANKLIN STRONG.

COMMENCEMENT.

WILLIAM HARRY CLEMONS,	EDWARD ANDREWS INGRAHAM,
PHILIP PRESCOTT FROST,	JAMES WISWELL MUDGE,
GEORGE WASHINGTON HARPER, JR.,	ARTHUR NEWMAN TASKER,
WILLIAM GRAY HARRIS,	EVERETT LYNN THORNDIKE.

HONORS IN SCHOLARSHIP.

I. HONORS IN GENERAL SCHOLARSHIP.—Two grades of honor, designated respectively as honors and high honors, are conferred at graduation, based upon the general scholarship of the student throughout his whole course.

An honor in general scholarship is awarded to a student who has received a grade not below third on an aggregate of not less than 62 hours' work, as reckoned in the record of standings, has received first grade on a number of hours' work not less than the part of the 62 hours' work on which he has received third grade, and has not fallen below fourth grade in any study of the course.

A high honor in general scholarship is awarded to a student who has received a grade not below second on an aggregate of not less than 62 hours' work, has received first grade on an aggregate of not less than 50 hours' work, and has not fallen below third grade in any study of the course.

II. PRELIMINARY HONORS.—Preliminary honors are awarded in the departments of classics and mathematics at the end of the Sophomore or Junior year, and no student can receive special honors at graduation in Greek, Latin, or mathematics, who has not previously received the corresponding preliminary honors. Notice of candidacy for preliminary honors must be given to the senior officer of the department, and to the Secretary of the Faculty, as early as the first Monday of the third term of the year in which the candidate intends to present himself for the special examination (April 20, 1903). The case of each candidate is decided by the Faculty. The special regulations concerning the award of preliminary honors are as follows:—

Classics.—I. The candidate must not fall below third grade, and must maintain an average standing of second grade, in the following courses:—I., II., and III. Greek, and in Latin I., VI., and any two of the Courses II.—IV.

2. He must also pass with distinction a special examination, held near the end of the academic year, and designed to test (*a*) his ability to translate Greek and Latin into English at sight, and (*b*) his knowledge of Greek and Latin grammar, and of Greek and Roman antiquities, mythology, and political and literary history.

Mathematics.—1. The candidate must not fall below third grade, and must maintain an average standing of second grade in the required course in mathematics, and in such elective courses, amounting to not less than five hours a week, as may be approved by the head of the department. Courses IV. and V. are recommended.

2. He must pass with distinction a special examination, held near the end of the academic year, which may cover the entire field of his mathematical knowledge.

III. HONORS IN SPECIAL DEPARTMENTS AT GRADUATION.—Two grades of special honor, designated respectively as honors and high honors, are awarded at graduation in each of the following departments:—

Latin; Greek; German; Romance Languages; English; History; Economics and Social Science; Philosophy; Mathematics; Physics; Chemistry; Geology; Biology.

The conditions upon which special honors in these departments are awarded are as follows:—

(1) The candidate must apply to the officer in charge of the department in which he desires to take honors, and to the Secretary of the Faculty, not later than the first Monday of the third term in the Junior year (April 20, 1903).

(2) He must pass at the regular or special examinations in such studies of the college course as are prescribed for honors in the several departments in the schedule given below; and in such studies he must not fall below third grade, and must maintain an average standing of second grade after the beginning of the Sophomore year, or must receive first grade in all of the prescribed studies which he takes after the beginning of the Junior year.

(3) In addition to the studies regularly prescribed in the schedule below, the candidate must pursue such a course of collateral reading or investigation as is prescribed by the officer in charge of the department, with the approval of a committee of the Faculty. The evidence of his proficiency in this collateral course is given by an examination,

oral or written, by a thesis or essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as may be prescribed by the officer of the department, with the approval of a committee of the Faculty. The case of each candidate is decided by the Faculty.

(4) In addition to other requirements, every candidate for special honors is required to pass a *general examination* covering the entire field of his knowledge in the department in which the honor is given. This examination is oral, and is conducted in the presence of a committee of the Faculty.

(5) No student is awarded special honors who fails to pass in any study of the last two years of the course.

(6) No examination for special honors is given, and no thesis or other work in preparation for special honors is received, after the second Saturday preceding Commencement (June 20, 1903).

The conditions upon which high special honors are awarded are the same as for special honors, with the addition of the following requirements:—

The candidate must receive first grade in all of the prescribed studies which he takes after the beginning of the Sophomore year, and his examinations and other tests must show an exceptionally clear and comprehensive understanding of the studies of the department, and give promise of capacity for independent work.

The following schedule gives the studies required of candidates for special honors in the several departments:—

Latin.—1. So many of the courses in Latin as will amount in the aggregate to not less than twenty hours a week.

2. Courses I. and II. in Greek.

[Candidates for special honors in Latin at graduation are requested to announce their candidacy as early as the beginning of the Junior year.]

Greek.—1. Courses I.-V., and not less than seven hours in courses approved by the Committee on Special Honors.

2. Course I., and any two of Courses II.-IV. in Latin.

German.—1. Courses I.-VII. and IX. in German.

2. Courses I. and II. in French.

3. Course I. in English literature, or Courses IV. and V. in English language.

Romance Languages.—1. All the courses in French and in Italian.

2. Courses I. and II. in German.

English.—1. The required courses in English, including composition.

2. One of the following groups of elective courses:—

(a.) Four courses in English literature, and four courses in English language.

(b.) Four courses in English language, one course in English literature, two courses in German.

(c.) Four courses in English literature, one course in English language, four courses in French or German or both.

(d.) Four courses in English literature, four courses in French or German, the course in English history.

(e.) Five courses in English language, five courses in French or German.

History.—1. All the courses in history.

2. The required course, and one elective course, in economics and social science.

Economics and Social Science.—1. All the courses in economics and social science.

2. Course I., and either Course II. or Course III. in history.

Philosophy.—1. All the courses in philosophy.

2. The course in ethics.

3. The course in theism (for candidates in general philosophy) or Course I. in biology (for candidates in psychology).

Mathematics.—1. The required course in mathematics.

2. Elective courses in mathematics and astronomy, amounting in the aggregate to not less than fifteen hours a week.

3. Course I. in physics.

[Prospective candidates for special honors in mathematics at graduation are advised to take Course V. in mathematics in the Sophomore year.]

Physics.—1. Courses I. and II. in physics.

2. Two years of practical physics (in at least one of which there shall be three exercises a week).

3. Not less than three full courses chosen from the following:—V., VI., VII., VIII., IX., XII., XIII. Physics, and XII. Mathematics (V., VI., and VII. Physics being reckoned as half-courses).

4. Course I. in chemistry.

5. Either Course III. in chemistry or Course V. in mathematics.

Chemistry.—1. Courses I., II., either III. or X., IV., V., and IX. in chemistry (three exercises a week being required in Courses III. and X.).

2. Course I. in physics, and one year of practical physics; or Course VI. in chemistry, and Courses I. and V. in biology.

Geology.—1. Courses I.–VI. in geology.

2. The elementary course in astronomy.

3. Courses III. and IV. in biology.

4. Not less than two of the following courses:—V. and VI. Biology, III. and IV. Chemistry, and IX. Physics.

Biology.—1. Courses I.–IV. in biology.

2. Two years of practical biology (in at least one of which there shall be three exercises a week).

3. Courses I. and IV. in geology.

4. Course III. in chemistry or Course III. in geology.

[Candidates for special honors in biology are recommended to take at least one summer course in a marine laboratory.]

In all cases in which the foregoing schedule allows option between two or more courses or groups of courses, the student's selection is subject to the approval of the head of the department in which he desires to take honors.

In special cases a candidate for honors may be allowed to substitute other courses for those named in the foregoing schedule, by vote of the Faculty, on recommendation of the head of the department.

An honor of any of the kinds and grades mentioned may be conferred on a student sufficiently meritorious, by vote of the Faculty, even though his record of standing does not completely fulfill the requirements stated above.

The names of those students who take preliminary honors are announced at the public service held in the College Chapel on the Monday preceding Commencement (June 29, 1903).

The names of students who take honors at graduation, whether general or special, are printed on the Commencement program.

AWARD OF HONORS, 1901-1902.

HONORS IN GENERAL SCHOLARSHIP.

HIGH HONORS.

WILLIAM HARRY CLEMONS, JAMES WISWELL MUDGE,
 EVERETT LYNN THORNDIKE.

FANNIE MYERSON, ELIZABETH PARKHURST PECK.

HONORS

SAMUEL FULLER CROWELL, FREDERIC MILTON MCGAW,
FRANKLIN STILES DURSTON, CARL SAMUEL NEUMANN,
GEORGE WASHINGTON HARPER, JR., CLARENCE ALBERT PIERCE,
OLIN FISK HERRICK, GEORGE D RYDER,
ALEXANDER JAMES INGLIS, ARTHUR NEWMAN TASKER,
 CHARLES ELMER WALDRON.

ALICE LOCKWOOD ADAMS, SUSIE AUGUSTINE DE ANGELIS,
ELDORA JOSEPHINE BIRCH, ALICE WINIFRED ENGLISH,
DORA WILHELMINA DAVIS, MARGARET GRISWOLD.

HONORS IN SPECIAL DEPARTMENTS.

HONORS.

English.

JAMES WISWELL MUDGE. Edmund Burke. Thesis: "The Conservatism of Edmund Burke."

Physics.

FRANKLIN STILES DURSTON. Alternating Currents. Thesis: "A Study of an Alternating Current Curve Tracer and of Alternating Current Curves."

CLARENCE ALBERT PIERCE. Alternating Currents. Thesis: "A Study of an Alternating Current Curve Tracer and of Alternating Current Curves."

PRELIMINARY HONORS.

Classics.

ROLAND JAY BUNTEN,

PAUL NIXON,

HOWARD STIMSON PACKARD.

Mathematics.

HARRY LESLIE AGARD,

CHARLES GUY BROWN,

ROY SMITH HURD.



DEGREES.

The following degrees are conferred by the University, in course:—

BACHELOR OF ARTS.—This degree is conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Classical Course.

BACHELOR OF PHILOSOPHY.—This degree is conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Latin-Scientific Course.

BACHELOR OF SCIENCE.—This degree is conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Scientific Course.

The baccalaureate degree is awarded *summa cum laude* to a student who takes high honors both in general scholarship and in one or more departments; *magna cum laude*, to a student who takes a high honor either in general scholarship or in one or more departments; *cum laude*, to a student who takes an honor either in general scholarship or in one or more departments.

MASTER OF ARTS AND MASTER OF SCIENCE.—The degrees of Master of Arts and Master of Science are conferred in accordance with the following regulations:—

1. The degree of Master of Arts is conferred upon Bachelors of Arts of Wesleyan University, of at least one year's standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued in residence for a period of not less than one year. This course of study is under the full direction of a Committee of the Faculty on Graduate Instruction, composed of three permanent members with the addition of the instructor in charge of each department in which the candidate pursues work. Evidence of the candidate's proficiency in the approved studies is given by an examination, oral or written, by a thesis or an essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these

methods combined, as the committee may prescribe. All such tests of proficiency are under the direction of the committee, and they report to the Faculty proper candidates for the degree.

2. In the case of Bachelors of Arts of other colleges whose course of study is accepted as sufficient by the Committee on Graduate Instruction, or who pass such additional examinations as the committee prescribes, the degree of Master of Arts is conferred on the conditions prescribed in the case of Bachelors of Arts of Wesleyan University pursuing a course of study in residence.

3. The degree of Master of Arts is also conferred upon Bachelors of Arts of Wesleyan University, of at least three years' standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued *in absentia*, and equivalent in amount to that prescribed in the case of resident graduate students; and in all other particulars the same regulations hold in the case of non-resident as in the case of resident students. The degree is also conferred upon Bachelors of Arts of Wesleyan University, of two years' standing, at the satisfactory conclusion of a course of study pursued *in absentia*, on the conditions above specified, provided that the candidate has spent the two years in resident study in a non-professional department of some other university.

4. The degree of Master of Science is conferred upon Bachelors of Philosophy and Bachelors of Science, whether of this or of other colleges, under the same conditions which govern in the case of the degree of Master of Arts.

5. Bachelors of Philosophy and Bachelors of Science, whether of this or of other colleges, who pass such examinations in Greek and Latin, and in other literary studies, as the Committee on Graduate Instruction prescribes, are admitted to the degree of Master of Arts on the conditions prescribed in the case of Bachelors of Arts.

6. A fee of ten dollars is required from each graduate student upon promotion to the Master's degree.

Communications from prospective graduate students regarding the Master's degree should be addressed, in the first instance, to Professor E. T. Merrill, the secretary of the Committee on Graduate Instruction.

DEGREES CONFERRED, JUNE, 1902.

DEGREES IN COURSE.

The Degree of Bachelor of Arts was Conferred on

ROBERT AVERY ANDERSON,	ERNEST MORSE LIBBY,
ALFRED MILLER BAILEY,	JAMES WISWELL MUDGE,
BURTON JOHN BALDWIN,	CARL SAMUEL NEUMANN,
JOHN MELSON BETTS,	ROBERT BREWER NEWELL,
MARSHALL BEVIN,	WILBER EDWARD NEWTON,
WILLIAM HARRY CLEMONS,	HARRIE ALBERT PRATT,
JAMES JOSEPH COGAN,	CARL FOWLER PRICE,
WEBB GARDNER COOPER,	GEORGE D RYDER,
SAMUEL FULLER CROWELL,	IRVING FRANK SCOFIELD,
OTIO WATSON DAVIS,	NORMAN KEATOR SILLIMAN,
JERRY JOSIAH DE FREHN,	ARTHUR NEWMAN TASKER,
HAROLD AUSTIN DUNN,	JOSIAH WILLARD TAYLOR,
FRANKLIN STILES DURSTON,	HUBERT NELSON TERRELL,
PHILIP PRESCOTT FROST,	CHARLES HORTON TERRY,
GEORGE WASHINGTON HARPER, JR.,	JAMES VOORHEES THOMPSON,
WILLIAM GRAY HARRIS,	EVERETT LYNN THORNDIKE,
OLIN FISK HERRICK,	OLIVER RAWSON UNDERHILL,
ROBERT SMYTH HOLDEN,	HENRY GORDON WELLS,
ALEXANDER JAMES INGLIS,	FREDERICK AMOS WOODWORTH,
EDWARD ANDREWS INGRAHAM,	THEODORE BASIL YOUNG.
ALICE LOCKWOOD ADAMS,	ELIZABETH PARKHURST PECK,
DORA WILHELMINA DAVIS,	ERNESTINE ROSE,
FANNIE MYERSON,	JESSIE MARION WINANS.

The Degree of Bachelor of Philosophy was Conferred on

EVERETT GUNNER ACKART,	JAMES MARSHALL DEARBORN,
WALLACE L BONHAM,	MICHAEL GEORGE LAWTON,
ISAAC SQUIRE CARROLL,	HOWARD VICTOR LITTELL,
JAMES ALBERT CORSCADEN,	GEORGE DICKEY MILLS,
RALPH SPALDING CUSHMAN,	CLARENCE LUCIAN NEWTON,
DAVID GIFFORD WILLETS.	

SUSIE AUGUSTINE DE ANGELIS,	SARAH CURRIE HALLOCK,
ALICE WINIFRED ENGLISH,	ILGA FRANCES RAYE HARVEY,
MABELLE CHENEY GRANT,	AUGUSTA THERESA JONES,
KATHARINE LOUISE GRISWOLD,	IDA LIZZIE MACFARLANE,
MARGARET GRISWOLD,	FANNY TERRY VAN SCOY.

The Degree of Bachelor of Science was Conferred on

LEWIS EDWIN DE LANEY,	CLIFFORD DELEGAR MEEKER,
AXEL HANSON,	THOMAS HENRY MONTGOMERY,
GEORGE BRIGGS LUFKIN,	CLARENCE ALBERT PIERCE,
FREDERIC MILTON MCGAW,	MOSES KELLUM PIKE,
FRED MARLIN MEADER,	CHARLES ELMER WALDRON.
ELDORA JOSEPHINE BIRCH,	MAUDE VIOLA COLE,
	MAY TALMAGE VAN SCOY.

The Degree of Master of Arts on Examination was Conferred on

HARRY TORSEY BAKER, B. A., 1900. Subjects: English Literature and Language. Thesis: William Hazlitt, an Essay in Criticism.

ROSCOE ALLAN GRANT, B. A., 1894. Subjects: Classical Literature and Archaeology.

MARIE ROSALIE VON ESSEN HUBERT, B. A., 1901. Subject: German. Thesis: A Study of Byron in German Life and Letters.

FRANK CUMMINS LOCKWOOD, B. A. (Baker University), 1892, M. A. (*ibid.*), 1895, PH. D. (Northwestern University), 1896. Subject: English Literature. Thesis: The Critical Doctrines of Wordsworth and Coleridge.

The Degree of Master of Science on Examination was Conferred on

ROLLIN HILLIARD BURR, B. S., 1900. Subject: Biology. Theses: A Statistical Study of the Insane. The Acid Organisms concerned in the Souring of Milk.

ALICE BAKER GUY, B. A. (Vassar College), 1898. Subject: German. Thesis: German Culture during the Middle Ages as reflected in the great Middle High German Epics.

MIRANDA BELLE SPERRY, PH. B. (University of Michigan), 1892.
Subject: English Literature. Thesis: Wordsworth as a
Representative of his Age.

HONORARY DEGREES.

The Degree of Master of Arts was Conferred on

WILBUR FISK GORDY, of the Class of 1880, Hartford.

The Degree of Doctor of Divinity was Conferred on

REV. WILLIAM FRANKLIN ANDERSON, PH. D., Ossining, N. Y.

REV. WILLIAM BURT, of the Class of 1879, Rome, Italy.

REV. JOEL MARVIN LEONARD, PH. D., Dorchester, Mass.

REV. HERBERT WELCH, of the Class of 1887, Middletown.

The Degree of Doctor of Laws was Conferred on

EDMUND JANES JAMES, PH. D., President of Northwestern University.



PUBLICATIONS.

ALUMNI RECORD.—Through the liberality of Orange Judd, M. A., a Biographical Record of the Alumni of the University was published in 1869. A third edition of this Record, revised and corrected, was issued in June, 1883. This edition contains not only the record of alumni, revised and corrected to the date of publication, but also a list of all former students not graduates, with their residences, and such other information with reference to them as the most thorough search could obtain. It also includes a bibliographical record, showing all the more important literary and scientific work done by alumni and members of the Faculty. Copies of this edition may be had on application to the librarian, W. J. James. The price of the Record, postage paid, is one dollar.

A fifth edition of the Supplement to the Alumni Record, was published in November, 1901. It contains an alphabetical list of the living graduates, with their honorary and professional degrees, their occupations, their addresses, and their geographical distribution. This edition also contains, for the first time, a list of honorary alumni, with their addresses, if living, or date of death, if deceased.

Information in regard to changes of address of alumni or in regard to any other facts suitable for future editions of the Record, is earnestly solicited. All who can furnish such information are requested to communicate with Professor F. W. Nicolson.

BULLETIN.—The *Bulletin* was first issued in 1888, and has since been published twice a year (usually in May and November), under the direction of a committee of the Faculty. It contains accounts of trustee and alumni meetings, lists of recent gifts, statements of the most urgent needs of the University, changes in the Faculty and courses of study, department notes, and various other matters of

interest to the alumni and friends of the institution. It is sent to the trustees and alumni, and may be obtained by other friends of the University upon application to the Secretary of the Faculty.

NECROLOGY.—A list of deceased graduates of the University is published annually in the Spring *Bulletin*. All persons who can supply information for future lists are urgently requested to communicate the same to Professor F. W. Nicolson.

EMPLOYMENT BUREAU.

An employment bureau is maintained in the office of the Secretary of the Faculty, for the purpose of securing positions as teachers for graduates of the college, and to provide opportunities for undergraduates to earn money towards paying their college expenses, either by work in Middletown during term time, or by work in Middletown or elsewhere during the summer vacation. Those who wish to avail themselves of the opportunity thus offered are invited to register; and the alumni and friends of the college are urgently requested to inform the Secretary of any vacancy coming to their notice which might be filled by a Wesleyan student or graduate. No fees are charged.

SUMMER SCHOOL OF CHEMISTRY AND BIOLOGY,

JULY, 1902.

The Wesleyan University Summer School of Chemistry and Biology was in session in Middletown, July 1 to 31, 1902. The school was organized in response to the request of a number of persons, chiefly teachers of home economics in schools and colleges, who are interested in the investigations in the chemical and biological laboratories of the University, especially those carried on under the auspices of the United States Government. The aim of the school was to give instruction in various branches of applied chemistry and biology, especially in their relation to the new and rapidly growing pedagogical movement, variously designated as domestic science, home economics, and home science.

Instruction was given by members of the Faculty of Wesleyan University, assisted by Dr. H. C. Sherman of Columbia University, Dr. C. F. Langworthy of the United States Department of Agriculture, Dr. P. I. Merrill, and Mrs. E. H. Richards, Instructor in Sanitary Chemistry in the Massachusetts Institute of Technology.

An inclusive fee of \$20 was charged for the several lecture courses, and an additional fee of \$5 for each laboratory course.

COURSES OF INSTRUCTION.

I. FOOD AND NUTRITION. Lectures on the methods and results of investigations. Among the topics discussed were (1) composition of food materials, (2) dietary studies, digestion, and metabolism experiments. PROFESSOR ATWATER.

II. FOOD ANALYSIS. A study of the apparatus and methods employed for the determination of moisture, ash, nitrogen (protein), fat, etc. The use of the bomb calorimeter in determining heats of combustion. DR. SHERMAN.

III. METHODS OF DIETARY STUDY. Experimental course. DR. SHERMAN.

IV. THE COMPOSITION, NUTRITIVE VALUES, AND USES OF FOOD MATERIALS. A course of lectures. DR. LANGWORTHY.

V. QUANTITATIVE ANALYSIS. Laboratory course. DR. MURRILL.

VI. CHEMICAL PHENOMENA AT LOW TEMPERATURES. A course of lectures, with demonstrations. PROFESSOR BRADLEY.

VII. BACTERIOLOGY. A course of lectures, including a general consideration of bacteriological topics, with special reference to the study of the economics and the hygiene of the house, the dairy, and the farm. PROFESSOR CONN.

VIII. BACTERIOLOGY. Laboratory course. MR. ESTEN.

IX. AIR, WATER, AND VENTILATION. A course of lectures. MRS. RICHARDS.

STUDENTS.

- Bernette Bachelor, *Teacher, Hampton Institute, Hampton, Va.*
 Isabel Bevier, Ph. M., (Univ. of Wooster),
Teacher, Univ. of Illinois, Urbana, Ill.
 Cora Aldrich Bowen, *Teacher, Manual Training School,*
Providence, R. I.
 Mary Ann Boyer, *Teacher, Blake Manual Training School,*
Santa Barbara, Cal.
 Millie Boyer, *Teacher, Meadville, Pa.*
 Mrs. Frances C. Caldwell, *Teacher, Mechanics' Institute,*
Rochester, N. Y.
 Isabella Jamieson Church, Ph. B., (Wesleyan Univ.),
Teacher, Orange, N. J.
 Elizabeth W. Cross, *Teacher, Washington, D. C.*
 Maud Curwen, *Harrington, Cumberland, England.*
 Blanche Daggett, *Teacher, Attleboro Falls, Mass.*
 Edna D. Day, M. S., (Univ. of Michigan),
Teacher, Lake Erie College, Painesville, O.
 Grace Godfrey, B. A., (Wellesley College),
Teacher, Simmons College, Boston, Mass.
 Sarah Chapman Hill, *Teacher, Michael Reese Hospital,*
Chicago, Ill.
 L. Helena Hotchkiss, *Teacher, School of Domestic Science,*
Boston, Mass.
 Fred Wooding Hutchinson, B. S., (Wesleyan Univ.),
Teacher, Winsted, Conn.

- Emma Suter Jacobs, *Director of Domestic Science, Public Schools, Washington, D. C.*
- Harriet Chase Jacobson, *Teacher, Girls' Industrial School, Middletown, Conn.*
- Myer Edward Jaffa, M. S., (Univ. of California),
Asst. Professor, Univ. of California, Berkeley, Cal.
- Miriam Nye Loomis, *Teacher, Lasell Seminary, Auburndale, Mass.*
- Abby Lillian Marlatt, M. Sc., (Kansas Agr. College),
Teacher, Manual Training School, Providence, R. I.
- Kintaro Oshima, Agr. D., (Univ. of Sapporo),
Assoc. Professor, Univ. of Sapporo, Sapporo, Japan.
- Maria Parloa, *New York, N. Y.*
- Mary Lindsay Paul, *Teacher, Philadelphia, Pa.*
- Elma Brooks Perry, Ph. B., (Ohio State Univ.),
Director of Domestic Arts, Stout Manual Training School, Menomonie, Wis.
- Rachel Rand, *Teacher, Newton Centre, Mass.*
- Anne Reed Ruggles, *Teacher, Hardwick, Mass.*
- John Ferdinand Schneider, *Student in Wesleyan Univ., Scranton, Pa.*
- Mary Moulton Smith, *Teacher, Lewis Institute, Chicago, Ill.*
- Cornelia Haddon Stone, B. A., (Wesleyan Univ.),
Teacher, High School, Chelsea, Mass.
- Gideon Barto Stone, Ph. B., (Grant Univ.), B. D., (Drew Theol. Sem.),
Instructor, Grant Univ., Athens, Tenn.
- Minnie Ava Nellie Stoner, B. Sc., (S. Dakota Agr. College),
Professor, Ohio State Univ., Columbus, O.
- Jane Elizabeth Taylor, B. A., (Woman's College, Baltimore),
Teacher, State Normal School, Athens, Ga.
- Mrs. Mabel G. Turnbull, *Allegheny, Pa.*
- Thomas Turnbull, Jr., B. S., (Cornell Univ.), M. D., (Univ. of Pennsylvania), *Lecturer, Med. Dept., W. Univ. of Penn., Allegheny, Pa.*
- Susannah Usher, B. S., (Mass. Inst. of Technology),
Teacher, Simmons College, Boston, Mass.
- Joseph King Van Denburg, M. A., (Wesleyan Univ.),
Teacher, Brooklyn, N. Y.
- Jane Ackerman Zabriskie, B. A., (Lake Forest Univ.),
Teacher, Univ. of Missouri, Columbia, Mo.

CALENDAR.

1902.

Sept. 25, Thursday—First term began.

Nov. 25-30, Thanksgiving recess.

Dec. 19, Friday—First term will close.

1903.**CHRISTMAS RECESS.**

Jan. 6, Tuesday—Second term will begin.

Jan. 29, Thursday—Day of prayer for colleges—a holiday.

Feb. 2-14, Mid-year examinations.

Feb. 23, Monday—Celebration of Washington's Birthday—a holiday.

April 7, Tuesday—Second term will close.

SPRING RECESS.

April 16, Thursday—Third term will begin.

April 18, Saturday—Last day for presenting Junior Exhibition essays.

April 20, Monday—Last day for presenting Olin Prize essays.

April 20, Monday—Last day for presenting applications for preliminary and special honors.

April 20, Monday—Last day for presenting applications for special spring examinations.

April 30, Thursday—Junior Exhibition.

May 18, Monday—Last day for presenting Joseph D. Weeks Prize essays.

May 30, Saturday—Memorial Day—a holiday.

June 4, Thursday—Prize Debate.

June 8, Monday—Senior examinations will begin.

June 15, Monday—Annual examinations will begin.

June 20, Saturday—Last day for presenting special honor theses, and for special honor examinations.

June 23, Tuesday—Last day for presenting Rich Prize essays.

June 25, Thursday—Examination of candidates for admission will begin.

June 26, Friday—Prize declamations.

June 28, Sunday morning—Baccalaureate sermon.

1903.

- June 29, Monday morning—Announcement of award of prizes and of preliminary honors.
June 29, Monday afternoon—Class Day.
June 29, Monday afternoon—Meeting of the Board of Trustees.
June 30, Tuesday morning—Business meeting of the Alumni Association.
June 30, Tuesday afternoon—Reunion of all classes.
June 30, Tuesday afternoon—Social receptions by the college fraternities.
July 1, Wednesday—COMMENCEMENT.

VACATION OF THIRTEEN WEEKS.

- Sept. 29, Tuesday—Special examinations for students deficient at the annual examinations.
Sept. 30, Wednesday—Examination of candidates for admission will begin.
Oct. 1, Thursday—First term will begin.

NOTE.—Special exercises in celebration of the two hundredth anniversary of the birth of John Wesley will be held during Commencement week in 1903. In consequence thereof, some changes will be necessary in the regular functions of the week. Details will be announced in the BULLETIN.

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WESLEYAN UNIVERSITY.

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CALENDAR, 1903

1904

JANUARY

S - 4 11 18 25
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MAY

S - 3 10 17 24 31
M - 4 11 18 25 X
T - 5 12 19 26 X
W - 6 13 20 27 X
T - 7 14 21 28 X
F 1 8 15 22 29 X
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SEPTEMBER

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JANUARY

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FEBRUARY

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OCTOBER

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JULY

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APRIL

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AUGUST

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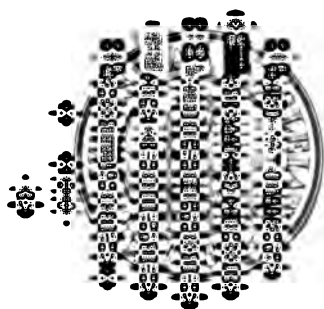
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§ James Elijah Wilson,	<i>Middletown.</i>	18 N. C.
Watson Woodruff,	<i>Berlin.</i>	Δ. T. Δ. <i>House.</i>
§ Helen Veronica Bransfield,	<i>Portland.</i>	274 <i>High St.</i>
§ Amy Eliza Davis,	<i>Middletown.</i>	299 <i>College St.</i>
† Annie Fisher,	<i>Hartford.</i>	274 <i>High St.</i>
§ Helen Louise Gilbert,	<i>Waterbury.</i>	199 <i>South Main St.</i>
Ethel Gertrude Reynolds,	<i>Middletown.</i>	246 <i>College St.</i>
Mary Elizabeth Smith,	<i>Chatham, Mass.</i>	274 <i>High St.</i>
Marguerite van Benschoten,	<i>Upper Montclair, N. J.</i>	274 <i>High St.</i>

JUNIOR CLASS.

NAMES.	RESIDENCES.	ROOMS.
Henry Dana Abbott,	<i>New Haven.</i>	Δ. K. E. House.
Hanford Curtis Adams,	<i>Bedford Station, N. Y.</i>	7 Foss House.
§ Henry Foster Adams,	<i>Clifton Springs, N. Y.</i>	Ψ. Y. House.
Walter Sinclair Adams,	<i>Salem, Mass.</i>	286 William St.
§ James Sidney Ames,	<i>Binghamton, N. Y.</i>	250 High St.
Frank Chester Becker,	<i>Plymouth, Pa.</i>	246 High St.
§ Allen Reynolds Bishop,	<i>Baltimore, Md.</i>	250 High St.
§ John Franklin Boyd,	<i>Fitchburg, Mass.</i>	Δ. T. Δ. House.
§ Thomas Ward Burnett,	<i>Summit, N. Y.</i>	X. Ψ. Lodge.
§ James Edward Butler,	<i>Sackett's Harbor, N. Y.</i>	Chafee House.
† Minn S Cornell, Jr.,	<i>Brooklyn, N. Y.</i>	A. Δ. Φ. House.
§ John McIntyre Davis,	<i>Brooklyn, N. Y.</i>	250 High St.
§ John Bates Eyster,	<i>York, Pa.</i>	Δ. T. Δ. House.
§ Nathan Hayes Fairchild,	<i>Syracuse, N. Y.</i>	A. Δ. Φ. House.
Allan Ferguson,	<i>Middletown.</i>	Ψ. Y. House.
Howard Brigham Field,	<i>East Hampton.</i>	Ψ. Y. House.
§ Daniel Roy Freeman,	<i>Ontario, Cal.</i>	39 N. C.
Harry Nichols French,	<i>Bridgeport.</i>	Δ. K. E. House.
Stewart Freeman Hancock,	<i>Syracuse, N. Y.</i>	250 High St.
† Samuel Ward Harris, Jr.,	<i>Fitchburg, Mass.</i>	Ψ. Y. House.
William Mortimer Heisler,	<i>Philadelphia, Pa.</i>	Ψ. Y. House.
§ Ernest George Nosworthy Holmes,	<i>Wilkes-Barre, Pa.</i>	15 Foss House.
Henry Alfred Holmes,	<i>Kents Hill, Me.</i>	39 N. C.
§ Donald Gilbert Hoyt,	<i>Upper Troy, N. Y.</i>	B. Θ. Π. House.
§ Harold Wardwell Hoyt,	<i>Stamford.</i>	Δ. K. E. House.
§ Howard Emery Ambler Jones,	<i>Middletown.</i>	287 College St.
§ Howard Wilson Kendall,	<i>Troy, N. Y.</i>	54 N. C.
§ Martin Hobart Knapp,	<i>Syracuse, N. Y.</i>	Ψ. Y. House.
Ralph Wendell Leighton,	<i>Portland, Me.</i>	Δ. T. Δ. House.

NAMES.	RESIDENCES.	ROOMS.
§ Ralph Edward Martin,	<i>Amherst, Mass.</i>	<i>Δ. K. E. House.</i>
Ralph Hooker Mix,	<i>Stamford.</i>	<i>B. Θ. II. House.</i>
§ Julian Cephas Morgan,	<i>Stamford.</i>	<i>B. Θ. II. House.</i>
Victor Caryl Myers,	<i>Buskirk, N. Y.</i>	<i>Δ. K. E. House.</i>
George Avery Neeld,	<i>Middletown.</i>	<i>246 High St.</i>
Charles Weatherwax Nethaway,	<i>Middletown.</i>	<i>151 Washington St.</i>
George Bradford Neumann,	<i>New Britain.</i>	<i>Δ. T. Δ. House.</i>
† Hermon Frederick Onthrup,	<i>Middletown.</i>	<i>44 N. C.</i>
§ Edward Randall Plumb,	<i>Syracuse, N. Y.</i>	<i>250 High St.</i>
§ John Arthur Randall,	<i>Portland, Me.</i>	<i>B. Θ. II. House.</i>
George Greenwood Reynolds, 2d,	<i>Brooklyn, N. Y.</i>	<i>35 N. C.</i>
† Horace Jacobs Rice,	<i>Springfield, Mass.</i>	<i>246 High St.</i>
Arthur Jay Scofield,	<i>Meriden.</i>	<i>23 Broad St.</i>
§ Harry Gregory Seides,	<i>Binghamton, N. Y.</i>	<i>Δ. T. Δ. House.</i>
§ Ralph Bingham Shipman,	<i>East Pepperell, Mass.</i>	<i>Δ. T. Δ. House.</i>
§ Hoyt Post Simmons,	<i>Brooklyn, N. Y.</i>	<i>Ψ. Y. House.</i>
§ Ray Oscar Stephens,	<i>Clifton Springs, N. Y.</i>	<i>Ψ. Y. House.</i>
† Ernest Melville Swett,	<i>South Paris, Me.</i>	<i>246 High St.</i>
† Francis Lambert Thornberry,	<i>Bridgeport.</i>	<i>B. Θ. II. House.</i>
George Edmunds Tolman,	<i>Dannemora, N. Y.</i>	<i>Δ. K. E. House.</i>
§ Clarence Howard Tryon,	<i>Meriden.</i>	<i>B. Θ. II. House.</i>
Burr de Forest Vail,	<i>Montdale, Pa.</i>	<i>250 High St.</i>
† Henderson Edmund Van Surdam,	<i>Hoosick Falls, N. Y.</i>	<i>Δ. K. E. House.</i>
Thomas Alexander West,	<i>Saco, Me.</i>	<i>Δ. T. Δ. House.</i>
† Howard Leighton Winslow,	<i>Woodford's, Me.</i>	<i>1 Foss House.</i>
James Maxon Yard,	<i>Farmingdale, N. J.</i>	<i>Ψ. Y. House.</i>
§ Ruth Burr Bonfoey,	<i>Middletown.</i>	<i>181 Court St.</i>
§ Ruth Dean,	<i>Middletown.</i>	<i>Newfield St.</i>
† Daisy Helena Lohr,	<i>Stamford.</i>	<i>274 High St.</i>
† Maude Stuart Newell,	<i>Middletown.</i>	<i>61 South Main St.</i>
§ Sarah Agnes Scudder,	<i>Washington, D. C.</i>	<i>274 High St.</i>
Clara Frances Sykes,	<i>Whitinsville, Mass.</i>	<i>274 High St.</i>

SOPHOMORE CLASS.

NAMES.	RESIDENCES.	ROOMS.
Arthur Ray Anderson,	<i>Mt. Vernon, N. Y.</i>	52 N. C.
§ Harold De Forest Arnold,	<i>Central Village.</i>	59 N. C.
§ Charles Woodard Atwater,	<i>Middletown.</i>	35 N. C.
§ Russell Bailey,	<i>Bound Brook, N. J.</i>	Δ. T. Δ. House.
§ Wilbur Stone Beeman,	<i>West Brookfield, Mass.</i>	62 N. C.
William Ebenezer Bell,	<i>Hamilton, Bermuda.</i>	8 Foss House.
Earl Maltby Benson,	<i>West Winfield, N. Y.</i>	55 N. C.
Robert Merrill Bisbee,	<i>Milford, Mass.</i>	246 High St.
§ George Imlay Bodine, Jr.,	<i>Philadelphia, Pa.</i>	51 N. C.
† Raymond Wolcott Bristol,	<i>Washington, D. C.</i>	37 N. C.
Samuel Curtis Campaigne,	<i>Troy, N. Y.</i>	246 High St.
§ Ernest Clifford Chichester,	<i>Patchogue, N. Y.</i>	B. Θ. Π. House.
Theron Alvord Clements,	<i>Cazenovia, N. Y.</i>	51 N. C.
Jesse Vancleft Cooper,	<i>Union, N. Y.</i>	62 Wyllys Ave.
Willis Brooks Davis,	<i>Middletown.</i>	299 College St.
§ Arthur Kent Dearborn,	<i>Middletown.</i>	15 Brainerd Ave.
Lester Francis Deming,	<i>Berlin.</i>	46 N. C.
Robert Wilson Forbes,	<i>Dalton, Mass.</i>	Δ. K. E. House.
§ Francis Burnet Frazee,	<i>Newark, N. J.</i>	Δ. K. E. House.
§ Ward Percy Gammons,	<i>Methuen, Mass.</i>	B. Θ. Π. House.
§ Gordon Gray Gatch,	<i>Washington, D. C.</i>	246 High St.
§ Edward Goldbacker,	<i>New York, N. Y.</i>	Δ. T. Δ. House.
† Manuel Henry Gonsalves,	<i>Acushnet, Mass.</i>	9 Foss House.
§ Robert Gray Goodman,	<i>Montclair, N. J.</i>	246 High St.
§ George Henry Hamilton,	<i>West Brattleboro, Vt.</i>	14 Foss House.
Clarence Eugene Hancock,	<i>Syracuse, N. Y.</i>	250 High St.
† Arthur James Hanlon,	<i>Canaan.</i>	Δ. Δ. Φ. House.
Warren Lucius Harlow,	<i>Worcester, Mass.</i>	62 Wyllys Ave.
† Marston Haviland,	<i>Brooklyn, N. Y.</i>	Δ. K. E. House.
George Edwin Heath,	<i>Everett, Mass.</i>	Δ. T. Δ. House.
§ Ira Prouty Ingraham,	<i>Guilford Centre, Vt.</i>	11 Foss House.
§ William Armour Johnston, Jr.,	<i>Prince's Bay, N. Y.</i>	38 N. C.

NAMES.	RESIDENCES.	ROOMS.
† Laurence Free McDonald,	<i>Parkton, Md.</i>	<i>13 Foss House.</i>
Albert Mann, Jr.,	<i>East Orange, N. J.</i>	52 N. C.
Ellis Hoagland Martin,	<i>Newark, N. J.</i>	<i>246 High St.</i>
† Harold Clifton Martin,	<i>Amherst, Mass.</i>	27 N. C.
James Irving Merritt,	<i>Saratoga Springs, N. Y.</i>	<i>15 Foss House.</i>
† Arthur James Monroe,	<i>Brattleboro, Vt.</i>	32 N. C.
William Gordon Murphy, Jr.,	<i>Brooklyn, N. Y.,</i>	<i>Δ. K. E. House.</i>
† Oliver Taylor Noon,	<i>Everett, Mass.</i>	47 N. C.
§ Arthur Elliott Paterson,	<i>Middletown.</i>	<i>110 Main St.</i>
Nicholas Elias Pieeff,	<i>Jacoruda, Macedonia.</i>	<i>58 Wyllys Ave.</i>
Newton Manley Perrins,	<i>Seymour.</i>	62 N. C.
William Northcote Phillips,	<i>Frederick, Md.</i>	57 N. C.
† Charles Frank Phipps,	<i>Milton, Mass.</i>	<i>246 High St.</i>
Henry Bordman Powell, Jr.,	<i>Clearfield, Pa.</i>	38 N. C.
Frank Eggleston Robbins,	<i>Westfield, Mass.</i>	<i>B. Θ. Π. House.</i>
† Joshua Lester Robins,	<i>Sand Lake, N. Y.</i>	<i>Δ. T. Δ. House.</i>
Guy Wright Rogers,	<i>Forksville, Pa.</i>	50 N. C.
† Charles Augustus Russell,	<i>Norwood, Mass.</i>	54 N. C.
§ Charles Robert Sawyer,	<i>Glens Falls, N. Y.</i>	<i>297 College St.</i>
§ Dwight Milton Sawyer,	<i>Glens Falls, N. Y.</i>	<i>297 College St.</i>
Jesse Ernest Shaw,	<i>East Longmeadow, Mass.</i>	29 N. C.
George Wiley Sherburn,	<i>St. Johnsbury, Vt.</i>	64 N. C.
† Alexander Chilson Stevens,	<i>Cromwell.</i>	46 N. C.
† Reginald Heber Stow,	<i>Cromwell.</i>	<i>Ψ. Υ. House.</i>
§ Ferdinand Richard Streber,	<i>Honduras, C. A.</i>	<i>Α. Δ. Φ. House.</i>
Frank Harold Syrett,	<i>Montclair, N. J.</i>	<i>246 High St.</i>
James Martin Talbot,	<i>Newark, N. J.</i>	<i>246 High St.</i>
† Elwood Idell Terry,	<i>Claverack, N. Y.</i>	<i>13 Foss House.</i>
Charles Mabbett Travis,	<i>Brooklyn, N. Y.</i>	27 N. C.
George Wood Merwin Vinal,	<i>Washington, D. C.</i>	<i>Δ. K. E. House.</i>
Frederick Franklin Voorhees,	<i>Farmingdale, N. J.</i>	19 N. C.
† Clifford Le Grande Waite,	<i>Middletown.</i>	<i>15 Crescent St.</i>
Charles Russell Waterbury,	<i>Stamford.</i>	<i>B. Θ. Π. House.</i>
§ Lester Reuben Weeks,	<i>Syracuse, N. Y.</i>	<i>250 High St.</i>
† James William Weld,	<i>Saranac Lake, N. Y.</i>	64 N. C.
† Ernest Burr Wheeler,	<i>New Britain.</i>	<i>Δ. T. Δ. House.</i>
§ James Augustus Wilson,	<i>Calhoun, Ala.</i>	<i>6 Foss House.</i>
Frederick Warren Wright,	<i>Mansfield, Ohio.</i>	<i>246 High St.</i>

NAMES.	RESIDENCES.	ROOMS.
§ Alice Gertrude Cooke,	<i>Middletown.</i>	<i>43 Park Place.</i>
Margaret Elizabeth Donahoe,	<i>Middletown.</i>	<i>350 Washington St.</i>
§ Helen Katherine Fletcher,	<i>Middletown.</i>	<i>94½ Court St.</i>
§ Matilda Aurora Hanson,	<i>Perth Amboy, N. J.</i>	<i>274 High St.</i>
Faye Mildred Keene,	<i>Waldoboro, Me.</i>	<i>274 High St.</i>
§ Jessie Louise Keene,	<i>Waldoboro, Me.</i>	<i>274 High St.</i>
§ Clara Ella Lang,	<i>Providence, R. I.</i>	<i>171 High St.</i>
§ Katherine Frances Lucey,	<i>Middletown.</i>	<i>10 Park St.</i>
§ Edith Weekes Say,	<i>Waterbury.</i>	<i>256 William St.</i>
§ Anna Madeline Vanderbrouk,	<i>Middletown.</i>	<i>494 Main St.</i>
§ Ella Pardee Warner,	<i>Highwood.</i>	<i>274 High St.</i>
§ Florence Winter,	<i>Middlefield.</i>	<i>274 High St.</i>

FRESHMAN CLASS.

NAMES.	RESIDENCES.	ROOMS.
Benjamin Pettengill Adams,	<i>Andover, N. Y.</i>	<i>9 N. C.</i>
Harold Douglass Allen,	<i>Tolland.</i>	<i>6 N. C.</i>
Ray Rood Allen,	<i>West Nanticoke, Pa.</i>	<i>9 N. C.</i>
† Frederick Leonard Armstrong,	<i>Troy, N. Y.</i>	<i>313 William St.</i>
§ Hiland Garfield Batcheller,	<i>Fort Edward, N. Y.</i>	<i>63 N. C.</i>
§ Joseph Clair Beebe,	<i>Meriden.</i>	<i>16 N. C.</i>
† Adolph Burnett Benson,	<i>Berlin.</i>	<i>Berlin.</i>
Harris Alonzo Bolton,	<i>Northfield, Mass.</i>	<i>1 Foss House.</i>
Russell Forrest Bower,	<i>Scranton, Pa.</i>	<i>31 N. C.</i>
Ernest Lyman Bragg,	<i>Hudson, N. H.</i>	<i>B. Θ. Π. House.</i>
† Walter Henry Brown,	<i>Derby.</i>	<i>48 N. C.</i>
§ Samuel Pierson Brush,	<i>Troy, N. Y.</i>	<i>49 N. C.</i>
† Sanford Wendell Carhart,	<i>Albany, N. Y.</i>	<i>X. Ψ. Lodge.</i>
Ralph Snow Carpenter,	<i>Milton, Mass.</i>	<i>14 N. C.</i>

NAMES.	RESIDENCES.	ROOMS.
Herbert Clayton Chamberlain,	<i>New York, N. Y.</i>	<i>297 College St.</i>
§ Joseph Wardell Chasey,	<i>N. Long Branch, N. J.</i>	<i>57 N. C.</i>
† Carl Willis Clark,	<i>Westville Center, N. Y.</i>	<i>317 William St.</i>
Harold Deming Clark,	<i>East Haven.</i>	<i>29 N. C.</i>
† John Scarlett Clarke,	<i>Orange, N. J.</i>	<i>13 N. C.</i>
† Ralph Martin Cole,	<i>Tottenville, N. Y.</i>	<i>37 N. C.</i>
Thomas William Coote,	<i>Wilbraham, Mass.</i>	<i>Δ. T. Δ. House.</i>
Howard Albert Corey,	<i>Farmington, Me.</i>	<i>48 N. C.</i>
Raymond Bert Cramer,	<i>Whitesville, N. Y.</i>	<i>297 College St.</i>
† Charles George Crane,	<i>Newark, N. J.</i>	<i>30 N. C.</i>
† Milton Strickland Davis,	<i>Newark, N. J.</i>	<i>297 College St.</i>
Benjamin Franklin Dickisson,	<i>East Stroudsburg, Pa.</i>	<i>313 William St.</i>
† Leonard Seaman Downey,	<i>Flushing, N. Y.</i>	<i>45 N. C.</i>
§ Charles Henry Du Bois,	<i>Palatine, N. J.</i>	<i>B. Θ. Π. House.</i>
Bruce Vincent Edwards,	<i>Bayonne, N. J.</i>	<i>X. Ψ. Lodge.</i>
† William Guy Fellows,	<i>Oneonta, N. Y.</i>	<i>4 N. C.</i>
Edwin Anderson Field,	<i>Stamford.</i>	<i>14 Foss House.</i>
§ Raymond Lalor Forman,	<i>Trenton, N. J.</i>	<i>19 N. C.</i>
§ Thomas Frederick Freeman,	<i>Ontario, Cal.</i>	<i>43 N. C.</i>
† Owen Stephen Gerard,	<i>Meriden.</i>	<i>178 Church St.</i>
§ Thomas Baker Gibb,	<i>Philadelphia, Pa.</i>	<i>Δ. T. Δ. House.</i>
† Willard Harvey Gildersleeve,	<i>Gildersleeve.</i>	<i>Gildersleeve.</i>
Harry Miles Gordy,	<i>Salisbury, Md.</i>	<i>5 N. C.</i>
† John Howard Gould,	<i>Bayonne, N. J.</i>	<i>X. Ψ. Lodge.</i>
† John Stevenson Green,	<i>Pen Argyl, Pa.</i>	<i>12 N. C.</i>
§ Arthur Benjamin Haley,	<i>Portland, Me.</i>	<i>10 N. C.</i>
Edward Olin Harned,	<i>Rochester, N. Y.</i>	<i>88 Wyllys Ave.</i>
Joseph Willis Hawley,	<i>Dorrancelon, Pa.</i>	<i>62 Wyllys Ave.</i>
Arthur Percy Hickcox,	<i>Watertown.</i>	<i>61 N. C.</i>
Harold Leonard Higgins,	<i>Waltham, Mass.</i>	<i>15 N. C.</i>
Harold McIlveen Horton,	<i>East Greenwich, R. I.</i>	<i>13 Cross St.</i>
Herbert Nagle Howard,	<i>Middletown.</i>	<i>66 Wyllys Ave.</i>
† Claude Hutchins,	<i>New York, N. Y.</i>	<i>317 William St.</i>
§ George Henry Ingraham,	<i>Guilford Center, Vt.</i>	<i>11 Foss House.</i>

NAMES.	RESIDENCES.	ROOMS.
§ Edward Allen Jennings,	<i>New York, N. Y.</i>	<i>66 Wyllys Ave.</i>
Guy Mortimer Knox,	<i>Manchester, N. H.</i>	<i>282 William St.</i>
§ Adelbert Llewellyn Leathers,	<i>Orrington, Me.</i>	<i>58 Wyllys Ave.</i>
§ Austin Millis Leavens,	<i>Troy, N. Y.</i>	<i>41 N. C.</i>
Earle Leslie Legg,	<i>Roslindale, Mass.</i>	<i>17 N. C.</i>
Ralph Davis Leonard,	<i>Melrose, Mass.</i>	<i>13 N. C.</i>
† William Henry Long,	<i>Sayville, N. Y.</i>	<i>32 N. C.</i>
Clarence Paul McClelland,	<i>Dobbs Ferry, N. Y.</i>	<i>53 N. C.</i>
Olin Foss McCormick,	<i>Hartford.</i>	<i>63 N. C.</i>
Henry Trumbower McLean,	<i>Hackettstown, N. J.</i>	<i>16 N. C.</i>
§ Floyd Josiah Miller,	<i>Oneonta, N. Y.</i>	<i>4 N. C.</i>
† George Lewis Mylchreest,	<i>Middletown.</i>	<i>9 Brainerd Ave.</i>
Walter Charles North,	<i>Syracuse, N. Y.</i>	<i>Y. Y. House.</i>
Joseph Walter Northrop, Jr.,	<i>Bridgeport.</i>	<i>17 N. C.</i>
† Ralph Rand Parish,	<i>Meriden.</i>	<i>B. O. H. House.</i>
Walter Patten,	<i>Providence, R. I.</i>	<i>53 N. C.</i>
† William Harold Peterson,	<i>Pine Bush, N. Y.</i>	<i>41 N. C.</i>
† Richard Handslow Reaveley,	<i>Turners Falls, Mass.</i>	<i>297 College St.</i>
Earle Linus Rich,	<i>Cattaraugus, N. Y.</i>	<i>50 N. C.</i>
§ Jewell Clinton Robb,	<i>West Brattleboro, Vt.</i>	<i>1 Foss House.</i>
§ Lyman Willetts Rogers,	<i>Eastport, N. Y.</i>	<i>47 N. C.</i>
† Louis Townsend Scudder,	<i>Washington, D. C.</i>	<i>49 N. C.</i>
Howard Arnold Seckerson,	<i>Brooklyn, N. Y.</i>	<i>62 Wyllys Ave.</i>
Rosevelt Rensselaer Sherwood,	<i>Albany, N. Y.</i>	<i>31 N. C.</i>
John Davis Smith,	<i>Canton Center.</i>	<i>58 Wyllys Ave.</i>
Young Chalmers Smith,	<i>Middlebury, Vt.</i>	<i>14 N. C.</i>
Edwin Frank Stidd,	<i>Bristol Center, N. Y.</i>	<i>297 College St.</i>
§ Edgar Storms, Jr.,	<i>Scarborough-on-Hudson, N. Y.</i>	<i>X. Y. Lodge.</i>
§ Lorenzo C. Streeter,	<i>Corning, N. Y.</i>	<i>X. Y. Lodge.</i>
† Henry Craig Sutton,	<i>Philadelphia, Pa.</i>	<i>61 N. C.</i>
† Frank Bradford Taylor,	<i>Cambridge, Mass.</i>	<i>6 N. C.</i>
Jesse Merrill Tebbetts,	<i>Lower Cabot, Vt.</i>	<i>Δ. T. Δ. House.</i>
Rufus Harold Tilton,	<i>Lynn, Mass.</i>	<i>10 N. C.</i>
§ Cortis Ephraim Torrance,	<i>Upper Jay, N. Y.</i>	<i>43 N. C.</i>

NAMES.	RESIDENCES.	ROOMS.
§ Harry Phillips Trevithick,	<i>Middletown.</i>	<i>243 College St.</i>
† Raymond Dickinson Unger,	<i>Newark, N. J.</i>	<i>30 N. C.</i>
Frank Adolph Vanscriber,	<i>Philadelphia, Pa.</i>	<i>5 N. C.</i>
Bayard Howard Veazey,	<i>Middletown.</i>	<i>11 N. C.</i>
† Garnsey Weeks,	<i>New York, N. Y.</i>	<i>Δ. K. E. House.</i>
Daniel Wilkins,	<i>Belchertown, Mass.</i>	<i>12 N. C.</i>
§ Addison Wetherald Williamson,	<i>Springville, N. Y.</i>	<i>11 N. C.</i>
Daniel Woodhead,	<i>Dorchester, Mass.</i>	<i>55 N. C.</i>
§ Alice Mabel Bock,	<i>Meriden.</i>	<i>274 High St.</i>
§ Elizabeth Pauline Bransfield,	<i>Portland.</i>	<i>274 High St.</i>
† Elizabeth Dunham Clark,	<i>Meriden.</i>	<i>274 High St.</i>
§ Marguerite Genevieve Lawton,	<i>Middletown.</i>	<i>146 Broad St.</i>
Vida Inez Maplesden,	<i>Hartford.</i>	<i>274 High St.</i>
Frances Teresa Nejako,	<i>Middletown.</i>	<i>6 William St.</i>
§ Althea Elnora Russell,	<i>Oakham, Mass.</i>	<i>'88 Pearl St.</i>
† Mima Bailey Turner,	<i>Middletown.</i>	<i>56 Durham Ave.</i>
Marietta Josephine Wetterau,	<i>Hazleton, Pa.</i>	<i>274 High St.</i>

SPECIAL STUDENTS.

NAMES.	RESIDENCES.	ROOMS.
Samuel Copran Dinsmore,	<i>Middletown.</i>	<i>173 High St.</i>
Samuel William Jennings,	<i>York, Pa.</i>	<i>246 High St.</i>
Floyd Stute Kenyon,	<i>Middletown. Berkeley Divinity School.</i>	
Clarence Rollin Newton,	<i>Westville.</i>	<i>45 N. C.</i>
Fernando Valera,	<i>Maunabo, Porto Rico.</i>	<i>38 Main St.</i>
Howard Bell Ziegler,	<i>Detroit, Mich. Berkeley Divinity School.</i>	
Charlotte Robinson Manning,	<i>Meriden.</i>	<i>274 High St.</i>
Martha Montague Russell,	<i>New York, N. Y.</i>	<i>88 Pearl St.</i>

SUMMARY.

						MEN.	WOMEN.	TOTAL.
GRADUATE STUDENTS, -	-	-	-	-	-	9	8	17
SENIORS, -	-	-	-	-	-	58	7	65
JUNIORS, -	-	-	-	-	-	55	6	61
SOPHOMORES, -	-	-	-	-	-	70	12	82
FRESHMEN, -	-	-	-	-	-	90	9	99
SPECIAL STUDENTS, -	-	-	-	-	-	6	2	8
TOTAL, -	-	-	-	-	-	288	44	332

ABBREVIATIONS.

[illegible]

GENERAL STATEMENT.

COURSES OF STUDY.—The College presents to its undergraduate students the option of three parallel courses of study, each extending through four years, named respectively the Classical Course, the Latin-Scientific Course, and the Scientific Course.

In the Classical Course, the study of Latin and Greek forms a large part of the required work of the first year. In the Latin-Scientific Course, Greek is omitted, and, in the Scientific Course, both Greek and Latin are omitted, in order to give more extended opportunity for the study of modern languages, science, and literature.

REQUIRED AND ELECTIVE STUDIES.—In each of the foregoing courses, nearly all the studies of the first year are required. In the three remaining years, the amount of required work is progressively diminished, the student being allowed to complete his quota by selecting from a wide range of elective studies. He is expected, however, to regulate his choice so that his electives will together form an harmonious and symmetrical course of study; and in no case is a student allowed to select a study which he is not, in the judgment of his instructors, qualified to pursue with advantage.

SPECIAL COURSES.—Students who do not desire to complete any one of the foregoing courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood that this provision is intended for the benefit, not of those students who are incompetent to take one of the regular courses, but of those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended

courses of study in particular departments. Such special students will be expected to attend all exercises assigned them, and will be subject to all the general rules of the college.

GRADUATE STUDIES.—Extended instruction is given to those who wish to pursue graduate courses of study in any of the departments. Further information concerning such graduate courses is given in the reports of the several departments on courses of instruction, and also in connection with the statement of conditions for the degrees of Master of Arts and Master of Science.



TERMS OF ADMISSION.

CLASSICAL COURSE.*

Candidates for admission to the Classical Course are examined in the following subjects:—

- LATIN.—1. Latin grammar, including prosody.
2. Caesar,—Gallic War, books I.–IV.
3. Cicero,—the four orations against Catiline, and those for Archias and for the Manilian Law.
4. Vergil,—Æneid, books I.–VI., and Eclogues.
5. Translation at sight into English of passages of Latin, both prose and poetry, of average difficulty.
6. Translation into Latin of simple English sentences and of easy narrative passages based on the prose authors read.

With the passages set under headings 5 and 6, a vocabulary of the less common words is supplied.

In place of the requirements specified under headings 2, 3, and 4, equivalent readings will be accepted, but, in general, prose will not be accepted instead of poetry, nor *vice versa*.

The Roman system of pronunciation is used in all the Latin work of the college course, and it is expected that applicants for admission will be well versed in it. They should also be well drilled in the observance of the laws of quantity in oral reading, especially in Vergil and Ovid.

GREEK.—1. Greek grammar, including prosody,—Hadley-Allen's or Goodwin's.

2. Xenophon,—Anabasis, books I.–IV.
3. Homer,—Iliad, books I.–III.
4. Translation at sight of one or more passages from Xenophon.
5. Translation into Greek of easy narrative passages based on the required books of the Anabasis.

* For announcement of prize for excellence in the studies preparatory to admission, see "Ayres Prize."

ANCIENT HISTORY AND GEOGRAPHY.—I. History of Rome to the death of Marcus Aurelius.

2. History of Greece to the capture of Corinth, 146 B. C.
3. Ancient geography.

The following books are recommended as the basis of instruction in ancient history and geography:—

1. Botsford's History of Rome.
2. Botsford's History of Greece.
3. Tozer's Primer of Ancient Geography.

Familiarity with map-drawing is also especially desirable.

MATHEMATICS.—I. Algebra,—Fundamental operations, factors, common divisors and multiples, fractions, negative quantities and the interpretation of negative results, powers and roots, the binomial theorem for positive integral exponents, radicals, equations of the first and second degrees with one or more unknown quantities, putting problems into equations, ratios and proportions, arithmetical and geometrical progressions.

2. Plane geometry,—Demonstrations, constructions, and solutions of numerical problems.

ENGLISH.—I. *Reading and Practice*. A limited number of books are assigned for reading. The candidate is required to present evidence of a general knowledge of the subject-matter of these books, and to answer simple questions on the lives of their authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and calls for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present an exercise book, properly certified to by his instructor, containing compositions or other written work done in connection with the reading of the books. In preparation for this part of the requirement, it is important that the candidate shall have been instructed in the fundamental principles of rhetoric.

The books set for this part of the examination will be:—

1904 and 1905—Shakspeare's Merchant of Venice and Julius Caesar; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's Vicar of Wakefield; Coleridge's Ancient Mariner; Scott's Ivanhoe; Carlyle's Essay on Burns; Tennyson's Princess; Lowell's Vision of Sir Launfal; George Eliot's Silas Marner.

2. *Study and Practice.* A smaller number of books are assigned for more careful study. The examination upon these books covers subject-matter, form, and structure, and also tests the candidate's ability to express his knowledge with clearness and accuracy. In addition, the candidate may be required to answer questions involving the essentials of English grammar, and questions on the leading facts in those periods of English literary history to which the prescribed works belong.

The books set for this part of the examination will be:—

1904 and 1905—Shakspeare's Macbeth; Milton's Lycidas, Comus, L'Allegro, and Il Penseroso; Burke's Speech on Conciliation with America; Macaulay's Essays on Milton and on Addison.

NOTE.—No candidate will be accepted in English whose work is notably defective in point of spelling, punctuation, idiom, or division into paragraphs.

LATIN-SCIENTIFIC COURSE.

Candidates for admission to the Latin-Scientific Course are examined in the following subjects:—

LATIN.—Same requirements as for the Classical Course.

ANCIENT HISTORY AND GEOGRAPHY.—Same requirements as for the Classical Course, including Greek history and geography.

MATHEMATICS.—Same requirements as for the Classical Course.

ENGLISH.—Same requirements as for the Classical Course.

Four additional courses, to be selected from the following list (provided that at least one course in modern languages must be selected):—

I. ELEMENTARY FRENCH (counting as two courses).—Such a knowledge of the language is required as may be obtained by the reading of at least 400 pages, part of which should be read at sight.

The examination consists of the translation at sight into English of easy passages of French, elementary grammatical questions, and the translation of simple English sentences into French. To meet this requirement two years' work will generally be necessary.

2. **ELEMENTARY GERMAN** (counting as two courses).—Such a knowledge of the language is required as may be obtained by the reading of at least 300 pages, part of which should be read at sight. The examination consists of the translation at sight into English of easy passages of German, elementary grammatical questions, and the translation of simple English sentences into German. To meet this requirement two years' work will generally be necessary.

3. **ADVANCED FRENCH**.—The requirement includes the reading of not less than 600 additional pages of French (including at least two works of a dramatic character), and regular practice in writing and speaking French. At least one additional year of study will be necessary to meet this requirement.

4. **ADVANCED GERMAN**.—The requirement includes the reading of at least 300 additional pages of German (not more than half of which should be fiction), and regular practice in writing and speaking German. At least one additional year of study will be necessary to meet this requirement.

5. **ADVANCED MATHEMATICS** (counting as two courses).—(1) Solid geometry. (2) Plane trigonometry, with the use of logarithmic and trigonometric tables. (3) Analytical geometry,—the straight line, the circle, and elementary properties of the conic sections.

6. **PHYSICAL GEOGRAPHY AND BOTANY**.—(1) In physical geography, such a knowledge of the subject is required as may be gained from the study of Geikie's *Elementary Lessons in Physical Geography*, Tarr's *Elementary Physical Geography*, Davis and Snyder's *Physical Geography*, Hinman's *Eclectic Physical Geography*, Dryer's *Lessons in Physical Geography*, or Gilbert and Brigham's *Introduction to Physical Geography*.

(2) In botany, the candidate must show such a knowledge of the subject as may be gained from either (1) the study of morphological and structural botany, as included in the more recent elementary botanical text-books of Spaulding or Bergen; or (2) the study of Gray's *Lessons in Botany*, accompanied by analysis and description of flowers.

7. PHYSICS.—(1) Such a knowledge of the subject is required as may be gained from Carhart and Chute's Elements of Physics, Gage's Elements of Physics, Avery's School Physics, Wentworth and Hill's Text-book of Physics, or Hoadley's Brief Course in Physics.

(2) The candidate must also have performed a series of at least thirty experiments *involving careful measurements*, in addition to any qualitative or very simple quantitative experiments he may have performed, and must present his original note-book, containing full records of the experiments, and certified to by his instructor. Such experiments as the exercises in Hall and Bergen's Text-book of Physics, the experiments in Chute's Physical Laboratory Manual, or the quantitative experiments in Stone's Experimental Physics, will be considered satisfactory.

8. CHEMISTRY.—(1) Such a knowledge of the subject is required as may be gained from Storer and Lindsay's Manual of Chemistry (omitting pp. 230-286), or from Remsen's Chemistry, Elementary Course.

(2) The candidate must also have performed a series of at least fifty experiments, and must present his original note-book, containing records of the processes and results of the experiments, and certified to by his instructor.

9. HISTORY OF ENGLAND AND OF THE UNITED STATES.—Such a knowledge of the subject is required as may be gained from Montgomery's Leading Facts of English History, and Johnston's History of the United States for Schools or Montgomery's Student's American History.

SCIENTIFIC COURSE.

Candidates for admission to the Scientific Course are examined in the following subjects:—

MATHEMATICS.—Same requirements as for the Classical Course.

ENGLISH.—Same requirements as for the Classical Course.

HISTORY OF ENGLAND AND OF THE UNITED STATES, as specified above.

Eight additional courses, to be selected from the following list (provided that at least one course in modern languages and at least one course in natural science must be selected):—

1. ELEMENTARY LATIN (counting as two courses).—Grammar; Caesar's Gallic War, books I.-IV.; translation into Latin of simple English sentences.

2. ADVANCED LATIN.—(1) *Either* Cicero,—the four orations against Catiline, and those for Archias and for the Manilian Law; *or* Vergil,—Æneid, books I.-VI., and Eclogues. (2) Translation at sight into English of passages of easy narrative prose Latin.

3. ADVANCED MATHEMATICS (counting as two courses), as specified on page 32.

4. ELEMENTARY FRENCH (counting as two courses), as specified on page 31.

5. ELEMENTARY GERMAN (counting as two courses), as specified on page 32.

6. ADVANCED FRENCH, as specified on page 32.

7. ADVANCED GERMAN, as specified on page 32.

8. PHYSICAL GEOGRAPHY AND BOTANY, as specified on page 32.

9. PHYSICS, as specified on page 33.

10. CHEMISTRY, as specified on page 33.

SPECIAL COURSES.

Special students, not candidates for a degree, may be admitted, upon passing such examinations as the Faculty shall in each case prescribe. (See also page 27.)

GENERAL REGULATIONS CONCERNING ADMISSION.

ADVANCED STANDING.—All candidates for advanced standing must satisfy the Faculty of their proficiency in the preparatory studies, the required studies already pursued by the classes they propose to enter, and the proper quota of elective studies, or studies recognized as equivalents therefor. A certificate of standing in another college is

not accepted as evidence of such proficiency, without such further inquiry or examination as may be necessary in the judgment of the respective instructors.

PRELIMINARY EXAMINATIONS.—A candidate for admission may obtain a preliminary record a year or more in advance of the time at which he expects to enter college, on condition of passing, in the June and September examinations of any year taken together, in the equivalent of at least half of the requirements for admission. Teachers and prospective candidates for admission may obtain from the Secretary of the Faculty a schedule of the values which will be assigned to each subject in determining the question of a student's preliminary record.

DATE AND PLACE OF EXAMINATIONS.—The regular examination for admission is held on the Thursday and Friday of Commencement week. Candidates must present themselves at South College at 9 A. M. on the former day. A second examination is held, commencing on the day preceding the first day of the first term. Candidates may be examined in Philadelphia, Cleveland, Cincinnati, or Chicago, provided they make application to the President before June 1. The time of these examinations will be Thursday and Friday of Commencement week. If no applications are received before June 1, these examinations will not be held.

ADMISSION BY CERTIFICATE.—Certificates covering the foregoing requirements for admission to college are received from certain schools of good standing, which have been approved by the Faculty. The privilege of certification is not given to schools which require less than four years of Latin and three years of Greek in their college preparatory course.

No certificate will be received hereafter from any school in New England which has not been approved by the New England College Entrance Certificate Board, of which this college is a member. The Secretary of the Board is Prof. N. F. Davis, of Brown University, Providence, R. I., to whom applications from New England schools for the certificate privilege should be addressed.

Diplomas (but not certificates) issued by the Regents of the University of the State of New York, and pass cards supplementary to such diplomas, will be received in lieu of examination in the subjects which they cover.

Certificates from preparatory schools and Regents' diplomas are never accepted in lieu of examination for advanced standing.

Students entering by certificate are considered as on trial until the completion of the mid-year examinations. A student admitted to college on certificate, who is dismissed during his Freshman year on account of inability to keep up with his class, must take examinations in all subjects required for admission, in case he desires to return to college.

Detailed information concerning admission by certificate may be obtained on application to the Secretary of the Faculty.

ADMISSION OF WOMEN.—At their annual meeting in June, 1900, the Trustees of the University passed the following resolution: "The University will admit women in a number limited to those who can be accommodated in the college buildings and in their own homes in Middletown, and the number in the University shall be limited to twenty per cent. of the whole number of students in the preceding year."

In view of the limitation of the number of women to be admitted, all women desiring admission should, if possible, make application to the Secretary of the Faculty before June 15th, though applications made later will in some cases be considered.

Miss A. A. Fisher, M. A., Dean of Women, has general oversight of the interests of the women students, and correspondence from women on all matters, except admission, course of study, and tuition scholarships, should be addressed to her.

All candidates for admission must present satisfactory testimonials of good moral character; and certificates of regular dismissal will be required from those who have been members of other colleges.

COURSES OF INSTRUCTION.

For regulations concerning selection of studies, see page 72.

The figures ¹ or ² following the number of a course indicate respectively that the course is offered for the first or the second half-year.

The place of meeting of each course is indicated by means of the following abbreviations: N. C.=North College; S. C.=South College; L. CH.=Lower Chapel; L. CH. 2=Small recitation room, Lower Chapel; J. H.=Judd Hall; O. H.=Observatory Hall; CHEM. LAB., PHYS. LAB., BIOL. LAB.=Chemical, Physical, Biological Laboratory.

The Roman numerals in parenthesis following each course indicate the examination group to which it is assigned. For table of groups, see pages 70 and 71.

An asterisk prefixed to the number of a course indicates that it can be elected only with the previous approval of the instructor.

LATIN.

PROFESSOR MERRILL; ASSOCIATE PROFESSORS NICOLSON
AND CHASE.

NOTE.—Owing to the necessary sharing by Associate Professor Chase in the instruction offered in Greek, the courses offered in Latin are temporarily reduced in number, and only those actually given the current year are here recorded. A statement of the courses that may be expected for the year 1904-05 will be published in the Announcement of Courses of Instruction to be issued at the end of the current year.

I. LIVY,—Books 21 and 22 (*first half-year*). TERENCE,—Phormio; PLAUTUS,—Captivi; CICERO,—De Senectute (*second half-year*). Exercises in sight translation and in prose composition throughout the year. SECTION 1, *Mon., Wed., Th., Fri., at 9*; SECTION 2, *Mon., Wed., Th., Fri., at 11*; SECTION 3, *Mon., Wed., Th., Fri., at 12.* 5 S. C. PROFESSORS NICOLSON AND CHASE. (II.)

Course I. is required of Classical and Latin-Scientific Freshmen.

II.¹ CICERO,—Selected Letters. *Tu., Th., at 12 (first half-year).*
40 N. C. PROFESSOR MERRILL. (XI.)

III.² PLINY THE YOUNGER,—Selected Letters. *Tu., Th., at 12 (second half-year).* 40 N. C. PROFESSOR MERRILL. (XI.)

IV.¹ ROMAN ELEGIAC POETRY.—Selections from Tibullus, Propertius, and Ovid. *Tu., Th., at 9 (first half-year).* 40 N. C. PROFESSOR MERRILL. (VIII.)

V.² HORACE,—Odes and Epodes. *Tu., Th., at 9 (second half-year).* 40 N. C. PROFESSOR MERRILL. (VIII.)

VI. LATIN PROSE COMPOSITION. The course begins with the systematic study of the elementary principles of Latin rhetoric, accompanied by brief practical exercises, and proceeds, in the second half-year, to the rendering into Latin of connected passages of modern historical and epistolary prose. *Fri., at 3.* 5 S. C. PROFESSOR CHASE.

Courses II.-VI. are elective for those who have taken Course I. Courses I., VI., and any two of Courses II.-V. are required of candidates for preliminary honors in classics. Prospective candidates for such honors are advised to elect Course VI. in the Sophomore year.

VII.¹ LUCRETIVS,—Books 1 and 3, and selections from the other books. *Tu., Th., at 10 (first half-year).* 5 S. C. PROFESSOR NICOLSON. (IX.)

Course VII. is elective for those who have taken at least two of Courses II.-V.

VIII.² ROMAN SATIRE AND EPIGRAM. Selections from the writings of Juvenal and Martial. *Tu., Th., at 10 (second half-year).* 5 S. C. PROFESSOR NICOLSON. (IX.)

Course VIII. is elective for those who have taken at least two of Courses II.-V.

IX.¹ LATIN PROSE OF THE EMPIRE. Readings from the less well-known writers. *Tu., Th., at 3 (first half-year).* 40 N. C. PROFESSOR MERRILL. (XII.)

Course IX. is elective for those who have taken at least two of Courses II.-V.

X.² CATULLUS. *Tu., Th., at 3 (second half-year).* 40 N. C. PROFESSOR MERRILL. (XII.)

Course X. is elective for those who have taken at least two of Courses II.-V.

XI. ROMAN TOPOGRAPHY AND PUBLIC BUILDINGS. A course of lectures, illustrated by photographs, engravings, and lantern-slides,

and requiring some collateral study of original and of secondary authorities, and the careful preparation of note-books. *Wed., Fri., at 9.* 40 N. C. PROFESSOR MERRILL. (II.)

Course XI. is elective for those who have taken Course I.

XII.¹ ROMAN NUMISMATICS. A course of lectures on the origin of Roman coinage, with especial attention to numismatic theories and types, and constant illustration by original specimens from the collections of the instructor and of the University. The lectures are followed by practical demonstrations and exercises in the use of coins as historical documents. *Wed., at 2; Fri., at 11 (first half-year).* 40 N. C. PROFESSOR MERRILL. (IV.)

Course XII. is elective for those who have taken at least two of Courses II.-V.

XIII.² LATIN PALÆOGRAPHY. A course of lectures on the book-hands of the middle ages, accompanied by practical exercises with the use of facsimiles, and followed by a brief survey of the causes and characters of manuscript errors, and the methods of emendation,—the course serving as an introduction to textual study. *Wed., at 2; Fri., at 11 (second half-year).* 40 N. C. PROFESSOR MERRILL. (IV.)

Course XIII. is elective for those who have taken at least two of Courses II.-V.

For the most successful prosecution of even the earlier courses in Latin, ability to read German prose on philological subjects is decidedly advantageous, and for Courses XI. and XII. it is necessary. Students, therefore, who look forward to the study of Latin beyond the more elementary courses, and who have on admission to college no acquaintance with German, should devote especial attention to that subject in the Freshman year.

GREEK.

ASSOCIATE PROFESSORS PATON AND CHASE.

NOTE.—This announcement of courses in Greek is for the present year only. It is probable that there will be several changes after 1904.

I. LYSIAS,—Select Orations; PLATO,—Apology (*first half-year*). PLATO,—Crito and Phædo (selections); HOMER,—Odyssey (*second half-year*). SECTION I, *Tu., Wed., Th., Fri., at 9*; SECTION 2, *Tu., Wed., Th., Fri., at 10.* 2 S. C. PROFESSOR PATON. (III.)

Course I. is required of Classical Freshmen.

II. THUCYDIDES,—Books VI. and VII. The History of the Sicilian Expedition (*first half-year*). PROFESSOR CHASE. ÆSCHYLUS,—The Persians and Prometheus Bound. Lectures and collateral reading on the Greek theatre and the Attic tragedy (*second half-year*). *Tu., Th., at 11.* PROFESSOR PATON. 2 S. C. (X.)

Course II. is elective for those who have taken Course I. It is required of candidates for preliminary honors in classics.

III. NEW TESTAMENT GREEK. *Th., at 2.* 2 S. C. PROFESSOR PATON.

Course III. is elective for those who have taken, or are taking, Course II. It is required of candidates for preliminary honors in classics.

[IV. THUCYDIDES,—Book II. Collateral reading on the history of the Peloponnesian War (*first half-year*). EURIPIDES,—Iphigenia among the Taurians. SOPHOCLES,—Electra. One other play (*second half-year*). *Three times a week.* PROFESSOR PATON.]

Course IV. is elective for those who have taken Course II. It is omitted the present year.

V. PLATO,—Gorgias. ARISTOPHANES,—The Birds. LYRIC POETS,—Selections. *Mon., Wed., Fri., at 8.* 2 S. C. PROFESSOR PATON. (I.)

Course V. is elective for those who have taken Course II.

VI.¹ THE ACROPOLIS OF ATHENS AND ITS MONUMENTS. This course includes a study of the characteristics of Greek architecture and of Athenian sculpture. Lectures, collateral reading, and reports. *Tu., Th., at 11 (first half-year).* 3 S. C. PROFESSOR PATON. (X.)

Course VI. is elective for those who have taken Course IV. or who take Course V.

VII.² HOMER. The Iliad. Books XIX.—XXIV., are read. In addition there is some study of the sources and tradition of the Homeric language. *Tu., Th., at 11 (second half-year).* 3 S. C. PROFESSOR CHASE. (X.)

Course VII. is elective for those who have taken Course IV. or who take Course V.

It is very desirable that those who elect the advanced courses in Greek should be able to read German prose on philological subjects.

GERMAN.

ASSOCIATE PROFESSOR FIFE; MR. SUPER.

I. **ELEMENTARY GERMAN.** Harris's German Lessons; Müller and Wenckebach,—Glück Auf; Hillern,—Höher als die Kirche; Heyse,—Das Mädchen von Treppi; Zschokke,—Das Wirtshaus zu Cransac; Arnold,—Fritz auf Ferien; Fulda,—Unter vier Augen. Conversation exercise and easy prose composition. Thomas's Practical German Grammar. SECTION 1, *Mon., Wed., Fri., at 8.* 11 S. C. PROFESSOR FIFE. SECTION 2, *Mon., Wed., Fri., at 12.* 6 S. C. MR. SUPER. (I.)

For rules in regard to the election of I. German, see page 45.

II. **ADVANCED GERMAN.** Readings: Fouqué,—Undine; Schiller,—Die Jungfrau von Orleans, Wilhelm Tell; Lessing,—Minna von Barnhelm; Heine,—Die Harzreise; Keller,—Romeo und Julia auf dem Dorfe; Sudermann,—Frau Sorge. A part of this reading is done at sight. Regular exercises throughout the year from Jagemann's German Prose Composition. Thomas's Practical German Grammar. *Mon., Wed., Fri., at 11.* 11 S. C. PROFESSOR FIFE. (IV.)

Course II. is elective for those who have taken Course I.

III. **GERMAN CONVERSATION AND GERMAN DAILY LIFE.** Practice in conversation is based on R. Kron's German Daily Life, supplemented by lectures and pictures illustrating German life and institutions. All class exercises are conducted in German. *Tu., at 2.* 6 S. C. PROFESSOR FIFE.

Course III. is elective for those who have taken Courses I. and II. It may be elected, with the permission of the instructor, together with Course II.

[* IV. **PROSE COMPOSITION AND ADVANCED GRAMMAR.** Poll's German Prose Composition, supplemented by independent themes. Jagemann's German Syntax. An introduction to German historical grammar. *Twice a week.* PROFESSOR FIFE.]

Course IV. is elective, with the permission of the instructor, for those who have taken Courses I.—III. It is intended especially for those preparing to teach German. It is omitted the present year.

V. GOETHE. *First half-year*. A study of Goethe's life and works, with selected parallel readings from his autobiography, plays and lyrics. Works read the present year: *Sesenheim* (edited by Huss from *Dichtung und Wahrheit*), *Egmont*, *Iphigénie auf Tauris*, and selected lyrics (Harris's edition). Lectures and themes. *Second half-year*. Goethe's *Faust* (both parts), with an introduction to the *Faust* legend and *Faust* poems. *Tu., Th., at 9.* 3 S. C. PROFESSOR FIFE. (VIII.)

Course V. is elective for those who have taken Courses I. and II.

VI.¹ NINETEENTH CENTURY LITERATURE. Various phases and periods are taken up in successive years. During the current year the contemporary German drama is studied. Rapid readings from Wildenbruch, Hauptmann, Sudermann, Fulda. *Tu., Th., at 3 (first half-year).* 3 S. C. MR. SUPER. (XII.)

Course VI. is elective for those who have taken Courses I. and II.

VII.² HEINE. A study of the poet's life, with rapid readings from his lyrics and prose works, White,—Selections from Heine's Poems, *Faust*,—Heine's Prose. *Tu., Th., at 3 (second half-year).* PROFESSOR FIFE. (XII.)

Courses VII. is elective for those who have taken Courses I. and II.

VIII. THE HISTORY OF GERMAN LITERATURE,—from the earliest period to the present time. A course of lectures, in the German language. Robertson's *History of German Literature* is used for reference. Parallel readings and themes. *Tu., Th., at 10.* 6 S. C. PROFESSOR FIFE. (IX.)

Course VIII. is elective for those who have taken Courses I. and II., and who have taken, or are taking, Course III.

[IX.¹ OLD HIGH GERMAN. Introductory course. Braune's *Abriss der althochdeutschen Grammatik*. Selected readings from Braune's *Althochdeutsches Lesebuch*. *Twice a week (first half-year).* PROFESSOR FIFE.]

Course IX. is elective for those who have taken Courses I.—III. It alternates in successive years with an advanced course. Course IX. is omitted the present year.

[X.² MIDDLE HIGH GERMAN. Advanced course. Paul's *Mittelhochdeutsche Grammatik*. Readings from Hartmann von Aue's *Der*

Arme Heinrich (Bech's edition), the Nibelungenlied (Zarncke) and Walther von der Vogelweide (Pfeiffer-Bartsch). *Twice a week (second half-year).* PROFESSOR FIFE.]

Course X. is elective for those who have taken Courses I.-III. It alternates in successive years with an elementary course. Course X. is omitted the present year.

Graduate Instruction.

Courses IX. and X. are intended as an introduction to graduate work, and may, with additional requirements, be taken as graduate courses. Further graduate instruction may be arranged for through private conference.

ROMANOE LANGUAGES.

PROFESSOR KUHN; MR. SUPER.

I. ELEMENTARY FRENCH. Fraser and Squair's French Grammar, Part I. Kuhns's French Reading for Beginners. François,—Introductory French Prose Composition. Erckmann-Chatrian,—Madame Thérèse; About,—Le Roi des Montagnes. Part of the reading is done at sight. There is also personal drill in pronunciation. SECTION 1, *Mon., Wed., Fri., at 11*; SECTION 2, *Mon., Wed., Fri., at 3.* 3 S. C. MR. SUPER. (IV.)

For rules in regard to the election of I. French, see page 45.

II. ADVANCED FRENCH. Fraser and Squair's Grammar, Part II. This course has for its main object the study of advanced grammar and composition, in connection with the reading of a large amount of French. Special attention is paid to sight reading in class, and for each half-year collateral reading is given to be prepared by the student himself for examination. On Fridays a history of French literature is translated from French into English, and is supplemented by lectures given by the instructor. *Mon., Wed., Fri., at 8.* 12 S. C. PROFESSOR KUHN. (I.)

Course II. is elective for those who have taken Course I.

III. FRENCH COMPOSITION AND CONVERSATION. François,—Advanced French prose composition; modern comedies and novels.

During the year informal lectures on travel in Europe are given in French by Professor Kuhns. Some of the lectures are illustrated by lantern-slides. *Tu., Th., at 12.* 11 S. C. MR. SUPER. (XI.)

Course III. is elective for those who have taken, or are taking, Course II.

*IV. MODERN FRENCH LITERATURE. The masterpieces of the great writers of the seventeenth, eighteenth, and nineteenth centuries are read and discussed in French, no translation being done in class. Some fifty pages of connected English prose are turned into French by the student and are read and corrected in class, the whole of this exercise being done orally. Further, frequent lectures are given on the general state of literature in France during the last three centuries. In addition, each member of the class must take a somewhat extended course of reading, must prepare for the class an abstract of what he has read, and must also write a short essay in French on the life of a selected author. *Tu., Th., at 10.* 6 S. C. PROFESSOR KUHN. (IX.)

Course IV. is elective, with the permission of the instructor, for those who have taken, or are taking, Course III.

V. OLD FRENCH. Clédat,—Morceaux Choisis des Auteurs Français du Moyen Age. Lectures on Old French literature and philology. *Th., at 8.* 9 S. C. PROFESSOR KUHN. (VII.)

Course V. is elective for those who have taken Courses I.-IV.

[VI. HISTORY OF FRENCH LITERATURE, with especial attention to its sources and influence on other literatures. Lectures, collateral readings, and reports. *Once a week.* PROFESSOR KUHN.]

Course VI. is elective for those who have taken Courses I.-IV. It is omitted the present year.

VII. ELEMENTARY ITALIAN. Italian Principia, I. De Amicis, —Cuore; Pellico, —Le Mie Prigioni; Manzoni, —I Promessi Sposi. In addition to the regular work by the class in translating modern prose, the instructor translates and interprets to the class the Inferno and the Purgatorio of Dante, the last half-hour of each recitation being devoted to this exercise. As a preparation for this part of the work, the class is required to read Dinsmore's Aids to the Study of Dante. *Tu., Th., at 11.* 6 S. C. PROFESSOR KUHN. (X.)

Course VII. is elective for Sophomores who have taken I. French.

[VIII. ADVANCED ITALIAN. Dante, Petrarch, Tasso, Ariosto. Lectures on the history of Italian literature. *Twice a week.* PROFESSOR KUHN.]

Course VIII. is elective for those who have taken Course VII. It is omitted the present year.

IX. DANTE IN ENGLISH. The New Life and the Divine Comedy are read in English translations. The instructor interprets these books in the light of the history, science, theology and philosophy of the Middle Ages, compares Dante with Homer, Shakspeare, and other world-poets, and shows his influence on modern thought, art and literature. *Mon., at 12.* 11 S. C. PROFESSOR KUHN. (V.)

Course IX. is elective for Juniors.

[X. ELEMENTARY SPANISH. Grammar, and reading of simple Spanish prose. *Twice a week.* MR. SUPER.]

Course X. is elective for Sophomores who have taken I. French. It is omitted the present year.

XI. ADVANCED SPANISH. The chief emphasis in this course is laid on the Don Quijote of Cervantes. *Tu., Th., at 8.* 3 S. C. MR. SUPER. (VII.)

Course XI. is elective for those who have taken Course X.

Graduate Instruction.

Course V. is designed for graduate students, but is elective for undergraduates.

Of the courses in French and German, Classical Freshmen are required to pursue either I. French or I. German, but are allowed their option between the two. Students in the Latin-Scientific Course are examined at entrance in the equivalent of either I. French or I. German, as they may elect, and in the Freshman year are required to pursue one course in French or German. They may either continue the study of the language in which their entrance examination was taken, or may begin the study of the other language, as they may elect. Students in the Scientific Course are required to complete the equivalent of Courses I. and II. in French and I. and II. in German. Such of these courses as they have not pursued and passed in before entering college, they must take as soon as possible after entering.

ENGLISH LITERATURE.

PROFESSOR WINCHESTER.

I. GENERAL INTRODUCTION TO ENGLISH LITERATURE. 1. An outline of the history of the literature. Moodey and Lovett's English Literature, with lectures. *First half-year.*

2. Class-room reading and discussion of literary masterpieces, illustrative of different varieties and periods of English literature. The works selected are: Shakspeare's Hamlet; Milton's L'Allegro, Il Penseroso, Comus, Lycidas, and Samson Agonistes; selections from Pope's Satires. *Second half-year.*

3. A brief course of collateral reading, with written recitations and essays upon subjects drawn from the reading. Members of the class may choose any one of the courses in Winchester's Five Short Courses of Reading in English Literature. These courses consist of selections from the following authors:—

(1) 1559-1674. Marlowe, Green, Shakspeare, Bacon, Milton.

(2) 1660-1745. Dryden, Addison, Steele, Swift; with Johnson's Lives of Dryden, Swift, and Pope, and Thackeray's Lectures on the English Humourists.

(3) 1745-1789. Gray, Goldsmith, Johnson, Burke, Cowper, Burns; with Leslie Stephen's Life of Johnson, Dobson's Life of Goldsmith, Morley's Life of Burke.

(4) 1789-1832. Wordsworth, Coleridge, De Quincey, Lamb, Byron, Shelley, Keats.

(5) 1832-1880. Carlyle, Ruskin, Matthew Arnold, Browning, Tennyson.

This work is tested by a series of written recitations and theses during the year. *Mon., Wed., at 12.* 11 S. C. (V.)

Course I. is elective for Sophomores.

[II. ENGLISH LITERATURE OF THE VICTORIAN PERIOD. Carlyle, Ruskin, Arnold, Tennyson, Browning. *Three times a week.*]

Courses II. is elective for those who have taken Course I.

III. ENGLISH POETRY, 1789-1832. Burns, Wordsworth, Coleridge, Scott, Byron, Shelley, Keats. *Mon., Wed., Fri., at 9.* 11 S. C. (II.)

Course III. is elective for those who have taken Course I. Courses II. and III. are given in alternate years, Course II. being omitted the present year.

[IV. NEW ENGLAND LITERATURE, 1835-1885. Emerson, Longfellow, Lowell, Hawthorne, Whittier, Holmes. *Twice a week.*]

V. LITERATURE OF THE PERIOD OF QUEEN ANNE. Defoe, Steele, Addison, Swift, Bolingbroke, Pope. *Mon., Wed., at 11.*
56 N. C. (IV.)

[VI. ESSAYISTS AND REVIEWERS OF THE EARLY NINETEENTH CENTURY: Jeffrey, Hazlitt, De Quincey, Lamb, Wilson, Hunt. *Twice a week.*]

Courses IV., V., and VI. are elective, with some restrictions, for those who have taken Course I., either Course II. or Course III., and Course VII. They are given in successive years, Courses IV. and VI. being omitted the present year.

VII. ELEMENTS OF LITERARY CRITICISM. Discussion of the essential elements and the various forms of literature, with practical exercises in the application of critical principles. Winchester's Principles of Literary Criticism is used as a text-book. *Fri., at 11.*
11 S. C. (IV.)

Course VII. is elective for those who have taken Course I.

VIII. DEBATE. Weekly practical exercises. Two members of the class are appointed to conduct the debate at each exercise. They must prepare written briefs of their argument, which are revised and corrected by the instructor, and are then publicly posted four days before the debate. *Mon., at 10.* L. CH. 2.

Course VIII. is elective for Seniors, and those who elect it are excused from half the rhetorical work required in Course IX.

IX. ENGLISH COMPOSITION. The rhetorical exercises of the Senior class are assigned to this department. Every Senior (unless excused from half this requirement by the provisions of Course VIII.) must write either four essays or two orations. All written work receives the personal criticism of the instructor, and the orations are also rehearsed before the instructor in elocution.

Graduate Instruction.

Special provision for graduate instruction is made to meet the wants of individual students.

ENGLISH LANGUAGE.

PROFESSOR MEAD; MR. BAKER.

NOTE.—On account of the expected absence of Professor Mead during the second half of the year 1903-04, the courses are somewhat reduced in number. All of the rhetorical work will, however, be required as usual during the second half-year, and will be under the direction of Mr. Baker.

I. RHETORIC. Baldwin's College Manual of Rhetoric, Mead's Composition and Rhetoric. For supplementary reading, Wendell's English Composition is recommended. The members of the class are required to write numerous exercises and brief themes illustrating and applying the principles laid down in the text-books. These exercises and themes are discussed and criticised in the class-room, and also at hours appointed by the instructor. SECTION 1, *Mon.*, at 8; SECTION 2, *Mon.*, at 9; SECTION 3, *Tu.*, at 9 (*counting as two hours a week*). 6 S. C. PROFESSOR MEAD AND MR. BAKER. (VIII.)

Course I. is required of Freshmen.

II. ENGLISH COMPOSITION. A. Sophomores are required to write six essays during the year on subjects approved by the instructor. MR. BAKER.

B. Juniors write on subjects of their own selection, and choose one of the two following courses: Course I., consisting of five general and two departmental essays; Course II., consisting of two general and four departmental essays. The departmental essays must be written on subjects related to some department of college work and approved by the instructor in English. PROFESSOR MEAD AND MR. BAKER.

Appointments for personal criticism are made for Sophomores and Juniors.

*III.¹ THE SHORT STORY. Cody's World's Greatest Short Stories, Jessup and Canby's Book of the Short Story. The selections are studied with especial reference to style. Each member of the class presents some exercises in diction, writes one or more stories, and reads a considerable number privately. The characteristics of the Short Story are treated in several lectures. *Tu.*, *Th.*, at 2 (*first half-year*). 3 S. C. MR. BAKER.

Course III. is elective for Sophomores, with the permission of the instructor.

IV.¹ OLD ENGLISH. This course is of fundamental importance as an introduction to the study of the English language and Early English literature. Cook's First Book in Old English and readings in simple Old English prose. Translation at sight is a frequent exercise from the beginning. *Tu., Th., at 3 (first half-year).* 6 S. C. PROFESSOR MEAD. (XII.)

Course IV. is elective for Sophomores.

[V.² OLD ENGLISH. Bright's Anglo-Saxon Reader, with additional readings in prose or poetry, as the class may elect. In this course reading at sight is especially encouraged. *Twice a week (second half-year).* PROFESSOR MEAD.]

Course V. is elective for those who have taken Course IV. It is omitted the present year.

[VI. OLD ENGLISH LITERATURE. Brooke's History of English Literature from the Beginning to the Norman Conquest, with lectures on the history of Old English literature before 1100 A. D., and some account of contemporary Germanic literature. One aim of this course is to give to students whose work lies mainly in modern literature a survey of Old English prose and poetry before the Norman Conquest, and to describe the life of which the literature is a reflection. Typical selections from Old English poems are read in translation. *Once a week.* PROFESSOR MEAD.]

Course VI. is elective for Sophomores. It is omitted the present year.

*VII.¹ MIDDLE ENGLISH. A course mainly in Chaucer and typical fourteenth century poetry. The pieces read in class are discussed in lectures treating the period from the point of view of comparative literature. For this course, as at present arranged, no knowledge of Anglo-Saxon is required. *Wed., Fri., at 3 (first half-year).* 6 S. C. PROFESSOR MEAD. (VI.)

Course VII. is elective for Juniors, with the permission of the instructor.

[VIII. MIDDLE ENGLISH LITERATURE. A course of lectures on English literature from the Norman Conquest to the Revival of Learning. The aim of this course is to point out the chief literary types in the early literature of England, and to indicate the materials

that have been used again in modern English literature. Especial attention is given to the Arthurian Romances and to Chaucer. *Once a week.* PROFESSOR MEAD.]

Course VIII. is elective for Juniors. It is omitted the present year.

[IX. BEOWULF. An advanced course in Old English poetry, with supplementary linguistic investigations. *Once (counting as twice) a week.* PROFESSOR MEAD.]

Course IX. is elective for those who have taken Course V. It is omitted the present year.

X.¹ HISTORY OF THE ENGLISH LANGUAGE. The aim of this course, which is of a popular, untechnical character, is to show in lectures and class discussions how English words have been made, how they have changed their sound, their forms, and their meanings, how and when foreign words have been borrowed, and in particular, how American English differs from that of England. For this course no knowledge of Anglo-Saxon is required. The principal collateral reading is based upon Greenough and Kittredge's Words and their Ways in English Speech. *Tu., Th., at 8 (first half-year).* 6 S. C. PROFESSOR MEAD. (VII.)

Course X. is elective for Juniors.

ELOCUTION.

PROFESSOR HIBBARD.

I. DECLAMATION. Freshmen are required to deliver declamations, mostly of their own selection, fortnightly.

Sophomores are required to deliver nine declamations during the year.

II. THEORY OF ELOCUTION. 1. Mechanics of speech. Theories of vocal expression. Text-book, Russell's Vocal Culture. *First term.*

2. Gesture. Theories of Austin and Delsarte. Text-book, Bacon's Manual of Gesture. *Second term.*

3. Study of style. Lectures on expression, extempore speech and sources of power. *Third term. Tu., Th., at 3.* L. CH. (XII.)

Course II. is elective for Juniors.

*III. FORENSIC AND DRAMATIC EXPRESSION. The study and practice of addresses, orations, and specimens of dramatic literature, as a preparation for public speaking. *Th., at 12.* L. CH. (XI.)

Course III. is elective, with the permission of the instructor, for those who have taken Course II.

HISTORY.

ASSOCIATE PROFESSOR DUTCHER.

I. HISTORY OF ENGLAND. English history from the earliest times to the present day. Gardiner's *Student's History of England*, Adams and Stephens's *Select Documents of English History*. Lectures and assigned work. *Tu., Th., at 8.* 12 S. C. (VII.)

Course I. is elective for Sophomores. Those intending to elect the later courses in history should elect Course I. in the Sophomore year.

II. AMERICAN COLONIAL HISTORY, 1492-1789. Thwaites's *The Colonies*, Hart's *Formation of the Union*, MacDonald's *Select Charters*. Lectures and assigned work. *Tu., Th., Fri., at 12.* L. CH. 2. (XI.)

Course II. is elective for those who have taken Course I.

[III. UNITED STATES HISTORY, 1789-1865. Hart's *Formation of the Union*, Wilson's *Division and Reunion*, MacDonald's *Select Documents of United States History*. Lectures and assigned work. *Three times a week.*]

Course III. is elective for those who have taken Course I. Courses II. and III. are given in alternate years, Course III. being omitted the present year.

[IV. EUROPEAN HISTORY, 300-1600. Hassall's *Periods of European History*, vols. 1-4. Lectures and assigned work. *Three times a week.*]

Course IV. is elective for those who have taken Course I. It is omitted the present year.

V. EUROPEAN HISTORY, 1600-1890. Stephens's *Syllabus of Modern European History*; Hassall's *Periods of European History*, vols. 5-8. Lectures and assigned work. *Mon., Wed., Fri., at 8.* L. CH. 2. (I.)

Course I. Courses
being omitted

present year: Dis-
pension to the study
resolution. Tu.,
hours for the

instructor, for
or Course III.,

E.
introductory
L.
(IV.)
with the permis-

a brief historical
economy, and crit-
[Twice a week.]
Course I. It is

State:—revenues
and other sources;
of public
Industrial effects.
of Finance;
are made to
(V.)

Course I. Courses
being omitted

IV. 1. MONEY AND BANKING. A course on the general principles and history of monetary and banking institutions, on the social and industrial aspects of the present monetary situation, and on the various schemes for reform. 2. THE TRUST PROBLEM. A discussion of industrial combinations, their causes, methods, and effects, and the means of social control. 3. THE TARIFF. A study of the theory of protective customs duties and of the history of tariff in America. *Tu., Th., at 11.* L. CH. 2. (X.)

Course IV. is elective for those who have taken Course I.

[V. THE GENERAL LABOR PROBLEM. A course of lectures on the nature, causes, and justification of the present social discontent, and on such suggested remedies as moral elevation, charity, education, provident institutions, labor organizations, strikes, conciliation and arbitration, labor legislation, improved wage systems, profit-sharing, coöperation, nationalization of the land, socialism, communism, anarchism. *Twice a week.*]

Course V. is elective for those who have taken Course I. Courses IV. and V. are given in alternate years, Course V. being omitted the present year.

[VI. SOCIOLOGY. A discussion of the fundamental principles of social organization, and the conditions and forms of social progress. *Twice a week.*]

Course VI. is elective for those who have taken, or are taking, Course I. It is omitted the present year.

VII. SOCIAL SCIENCE. An examination of certain concrete social problems of the present:—pauperism and charity; the defective and criminal classes. The class-room work is supplemented by visits to several of the charitable, penal, and reformatory institutions in and about Middletown. *Tu., Th., at 9.* L. CH. (VIII.)

Course VII. is elective for those who have taken, or are taking, Course I. Courses VI. and VII. are given in alternate years, Course VI. being omitted the present year.

* VIII. ECONOMIC SEMINARY. Each member of the seminary takes for private individual investigation, under the direction of the instructor, some problem in economics, finance, statistics, or social science, and week by week reports in class on progress made and

obstacles met. At the close of the year the work is brought together in a final report or thesis. *Tu.*, 7-10 p. m. (*first and second terms*), counting as two hours for the year. 10 O. H.

Course VIII. is elective, with the permission of the instructor, for Seniors who, having received first or second grade in Course I., take any three of Courses III.-VII.

It will be noted that in each of the college classes certain courses cannot be taken at all except by such students as take Course I. in the Sophomore year. Hence a student in an odd-numbered class who wishes to take Courses III. and IV., must qualify himself to take them in his Junior year by taking Course I. in his Sophomore year; and similarly a student in an even-numbered class can take Courses II. and V. only by taking Course I. in his Sophomore year. It should be noted, however, that Course I. may be taken in the Sophomore year only with the permission of the instructor.

Graduate Instruction.

Course VIII. is intended primarily for graduate students, but is open also to such undergraduates of the Senior year as are making special studies in the department. Courses II.-VII., while intended primarily for undergraduates, may also be taken with advantage by graduates who have studied only the principles of economic science.

PHILOSOPHY.

PROFESSORS ARMSTRONG AND DODGE.

I.² LOGIC. Jevons-Hill's Elements of Logic. An elementary course in the fundamental forms of reasoned thinking, deductive and inductive alike. The study of the text-book is illustrated by numerous examples in logical praxis. SECTION 1, *Tu.*, *Th.*, at 8; SECTION 2, *Tu.*, *Th.*, at 10 (*second half-year*). 11 S. C. PROFESSOR DODGE. (IX.)

Course I. is required of Sophomores.

II.² PSYCHOLOGY. Sully's Outlines of Psychology, with references to other authorities. Lectures and discussions are used to supplement the text-book. These are introduced especially in explanation of the more recent psychological investigations and of

positions still under debate. *Mon., Wed., Fri., at 10 (first half-year).* 11 S. C. PROFESSOR ARMSTRONG. (III.)

Course II. is required of Juniors.

III. PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY. Ladd's *Outlines of Physiological Psychology*. The course begins with a discussion of the physical basis of mind, but more than half of the time is devoted to the study of the chief experimental methods and results. Lectures and experimental demonstrations supplement the study of the text-book. *Mon., Wed., at 3.* 6 S. C. PROFESSOR DODGE. (VI.)

Course III. is elective for Juniors.

IV.¹ ADVANCED LOGIC. Hibben's *Inductive Logic*. The course opens with several lectures on the history of logic. Special attention is given to the discussion of the principles of induction and scientific method and to the criticism of concrete cases of scientific inference. *Tu., Th., at 11 (first half-year).* 7 S. C. PROFESSOR DODGE. (X.)

Course IV. is elective for Juniors.

V.² INTRODUCTION TO PHILOSOPHY. Lectures and recitations, with references to the Introductions of Stuckenberg, Ladd, Külpe, and Paulsen. The course is planned to meet the needs of students who seek instruction in the encyclopædia and the outlines of philosophy, as well as of students who intend to specialize in the department. *Tu., Th., at 11 (second half-year).* 3 S. C. PROFESSOR ARMSTRONG. (X.)

Course V. is elective for Juniors.

VI.² ANCIENT AND MÆDIEVAL PHILOSOPHY. Zeller's *Outlines of Greek Philosophy*, with references to Schwegler, Zeller's larger work, and other authorities; lectures and discussions. *Wed., Fri., at 10 (second half-year).* 3 S. C. PROFESSOR ARMSTRONG. (III.)

Course VI. is elective for Juniors.

VII.¹ MODERN PHILOSOPHY FROM THE RENAISSANCE TO KANT. Falckenberg's *History of Modern Philosophy*; lectures, recitations, discussions, and references to other standard histories of philosophy. *Tu., Th., at 3 (first half-year).* 4 S. C. PROFESSOR ARMSTRONG. (XII.)

Course VII. is elective, under ordinary circumstances, for those who have taken Course VI.

VIII.² MODERN PHILOSOPHY FROM KANT TO THE PRESENT TIME. Falckenberg's History of Modern Philosophy; lectures, recitations, discussions, and references to other authorities. *Tu., Th., at 3 (second half-year)*. 4 S. C. PROFESSOR ARMSTRONG. (XII.)

Course VIII. is elective for those who have taken Course VII.

IX. ADVANCED PSYCHOLOGY. The object of this course is the discussion of important selected topics. The views of leading thinkers are presented in lectures and in formal reports by members of the class. The topics for the current year are taken from the psychology of the emotions and the will, with special reference to the psychology of religion. *Mon., at 10*. 5 S. C. PROFESSOR DODGE. (III.)

Course IX. is elective, under ordinary circumstances, for those who have received not lower than grade two in Course II.

* X. LABORATORY COURSE IN PSYCHOLOGY. Experimental study of special problems. The principal subject of investigation for the present year is the modes of eye reaction to eccentric visual stimuli. *Fri., at 12*. 7 S. C. PROFESSOR DODGE. (V.)

Course X. is elective, with the permission of the instructor, for those who have taken Courses II. and III.

XI.¹ READINGS IN MODERN PHILOSOPHY. In this course representative works of leading thinkers of the first half of the modern period are read and discussed. Special attention is given to selections from the works of Descartes, Locke, Berkeley, and Hume. *Mon., Wed., Fri., at 11 (first half-year)*. 4 S. C. PROFESSOR ARMSTRONG. (IV.)

Course XI. is elective for those who are taking Course VII.

XII.² METAPHYSICS. Selections from the works of Kant and Lotze. Class readings and discussions. Topical reports and theses may also be required. *Mon., Wed., at 11 (second half-year)*. 4 S. C. PROFESSOR ARMSTRONG. (IV.)

Course XII. is elective for those who are taking Course VIII.

Graduate Instruction.

Courses IX.-XII. are intended for advanced undergraduates and graduates. Special courses for graduate students, under the direction of the instructors of the department, may be arranged in advanced experimental and systematic psychology, historical philosophy, and metaphysics.

ETHICS AND RELIGION.

PRESIDENT RAYMOND; PROFESSORS RICE AND DODGE.

I.¹ **ETHICS.** A course of lectures and recitations on theoretical and practical ethics. The course is introduced with a brief historical survey of ethical theory, and the lectures are supplemented by theses and collateral reading. Seth's Study of Ethical Principles is used as a text-book. *Wed., Fri., at 10 (first half-year).* L. CH. PROFESSOR DODGE. (III.)

Course I. is required of Seniors.

II.² **EVIDENCES OF CHRISTIANITY.** Recitations and lectures, Fisher's Grounds of Theistic and Christian Belief being used as a text-book. *Wed., Fri., at 10 (second half-year).* PRESIDENT RAYMOND. (III.)

Course II. is required of Seniors.

*III.³ **THEISM.** Instruction is given by lectures, supplemented by collateral readings and class discussions. The purpose of the course is to discover essential religious phenomena, to test the various historic theories offered in explanation of these phenomena, and to find a philosophic basis for faith. *Tu., Th., at 10 (second half-year).* PRESIDENT RAYMOND. (IX.)

Course III. is elective, with the permission of the instructor, for those who have taken Courses I., II., V., and VII. in philosophy.

IV.² **RELATIONS OF SCIENCE AND RELIGION.** Recitations and lectures on the history of important advances in scientific thought and their bearing upon theistic and Christian belief. The heliocentric astronomy, the antiquity of the earth and of man, the theory of evolution, and the correlation of physical and vital forces, are among the topics discussed. Rice's Christian Faith in an Age of Science is used as a text-book. *Tu., Th., at 8 (second half-year).* PROFESSOR RICE. (VII.)

Course IV. is elective for Juniors.

MATHEMATICS AND ASTRONOMY.

PROFESSORS J. M. VAN VLECK AND E. B. VAN VLECK; DR. DUNKEL.

I. **SOLID GEOMETRY.** Phillips and Fisher's Elements of Geometry. *First third of the year.*

PLANE TRIGONOMETRY. *Second third of the year.*

ANALYTICAL GEOMETRY. *Last third of the year.* SECTION 1, *Mon., Tu., Th., Fri., at 9;* SECTION 3, *Mon., Tu., Th., Fri., at 12.* DR. DUNKEL. SECTION 2, *Mon., Tu., Th., Fri., at 10.* PROFESSOR E. B. VAN VLECK. 12 S. C. (V.)

Course I. is required of Classical Freshmen, and of Latin-Scientific and Scientific Freshmen who did not pass in the advanced requirements in mathematics on admission to college.

II. ALGEBRA. Advanced course. *Tu., Th., at 11.* 26 O. H. DR. DUNKEL. (X.)

Course II. is elective for those who have taken Course I.

[III. TRIGONOMETRY. Advanced course, with applications to problems in surveying and astronomy. *Twice a week.*]

Course III. is elective for those who have taken Course I. It is omitted the present year.

IV. ANALYTICAL GEOMETRY. Advanced course, preceded by an introduction to the theory of determinants. *Wed., Fri., at 11.* 23 O. H. DR. DUNKEL. (IV.)

Course IV. is elective for those who have taken Course I.

V. DIFFERENTIAL AND INTEGRAL CALCULUS. Elementary course. *Tu., Th., Fri., at 12.* 26 O. H. PROFESSOR E. B. VAN VLECK. (XI.)

Course V. is elective for those who have taken Course I.

Courses II., IV., and V. are necessary for those who purpose to pursue advanced courses in pure mathematics; Course V. for those intending to pursue advanced courses in physics and other branches of applied mathematics.

VI. DIFFERENTIAL EQUATIONS, based on Murray's Treatise on Differential Equations. *Mon., Wed., at 8.* 26 O. H. PROFESSOR E. B. VAN VLECK. (I.)

Course VI. is elective for those who have taken Course V.

[VII. ANALYTICAL GEOMETRY OF THREE DIMENSIONS, including especially a study of mathematical models. *Twice a week.* PROFESSOR J. M. VAN VLECK.]

Course VII. is elective for those who have taken Course IV., and who have taken, or are taking, Course V. It is omitted the present year.

[VII. (a.) PROJECTIVE GEOMETRY. *Twice a week.* PROFESSOR E. B. VAN VLECK.]

Course VII. (a.) is elective for those who have taken either Course IV. or Course V. It is omitted the present year.

VIII. CHAPTERS IN THE HISTORY OF MATHEMATICS, with collateral reading. *Tu., at 2; Th., at 8.* 26 O. H. PROFESSOR E. B. VAN VLECK. (VII.)

Course VIII. is elective for those who have taken Course V., and who have taken, or are taking, one other elective course in mathematics.

IX. LECTURES ON THE THEORY OF DIFFERENTIAL EQUATIONS, with collateral reading. *Mon., Wed., at 12.* 23 O. H. PROFESSOR E. B. VAN VLECK. (V.)

Course IX. is elective for those who have taken the second course in Calculus (Course IX. of the year 1902-03), and is required of candidates for final honors in mathematics.

[X. THEORY OF FUNCTIONS. Elementary course. *Twice a week.* PROFESSOR E. B. VAN VLECK.]

Course X. is elective for those who have taken Course V. It is omitted the present year.

[XI. ELLIPTIC FUNCTIONS. *Twice a week.* PROFESSOR J. M. VAN VLECK.]

Course XI. is elective for those who have taken Course X. It is omitted the present year.

XII. THEORETICAL MECHANICS. *Tu., Th., at 12.* 23 O. H. PROFESSOR J. M. VAN VLECK. (XI.)

Course XII. is elective for those who have taken Course V.

XIII. DESCRIPTIVE ASTRONOMY. This course is designed to give a general knowledge of the fundamental facts and principles of astronomy, such a knowledge as may properly constitute a part of a general liberal education. *Wed., Fri., at 11.* 26 O. H. PROFESSOR J. M. VAN VLECK. (IV.)

Course XIII. is elective for those who have taken Course I., and is required of Scientific Sophomores.

XIV. SPHERICAL AND PRACTICAL ASTRONOMY, with practical exercises in the observatory. *Tu., Th., at 9.* 26 O. H. PROFESSOR J. M. VAN VLECK. (VIII.)

Course XIV. is elective for those who have taken Courses V. and XIII.

Graduate Instruction.

Courses VII. (a.), IX., X., XI., XII., and XIV. are intended for graduate students as well as for advanced undergraduates.

PHYSICS.

PROFESSOR CRAWFORD; ASSOCIATE PROFESSOR CADY.

I. ELEMENTARY PHYSICS. A general course, involving only elementary mathematics. Mechanics, Hydrostatics, Pneumatics. *Mon., Fri., at 10 (first half-year).* Heat, Sound, Light. *Mon., Wed., Fri., at 10 (second half-year).* PROFESSOR CRAWFORD. 25 O. H. (III.)

Course I. is required of Classical Sophomores, and of Latin-Scientific Sophomores and Scientific Freshmen who did not pass in physics on admission to college.

II. ELEMENTARY PHYSICS. Electricity and Magnetism. This course is supplementary to Course I. It includes also some experimental work in the laboratory. *Tu., Th., at 11.* 25 O. H. PROFESSOR CADY. (X.)

Course II. is elective for those who have taken, or are taking, Course I.

III. PRACTICAL PHYSICS. Elementary experiments in mechanics, sound, heat, and light. This course is intended for those who purpose to teach physics, and also as an introductory course for those who expect to take further laboratory work. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (any two of these hours at the discretion of the student).* PHYS. LAB. PROFESSOR CRAWFORD.

Course III. is elective for those who have taken, or are taking, Course I.

IV. ELECTRICAL MEASUREMENTS. Experimental work in the electrical laboratory, supplemented by occasional lectures. Each

exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week)*. PHYS. LAB. PROFESSOR CADY.

Course IV. is elective for those who have taken Course II.

Courses III. and IV. are parallel. With the consent of the instructors, a student may take a half-year of each.

V.² SOUND. A course of lectures, with collateral readings and experimental illustrations. *Tu., Th., at 8 (second half-year)*. 25 O. H. PROFESSOR CRAWFORD. (VII.)

Course V. is elective for those who have taken Course I.

VI.¹ HEAT. A general elementary treatment of the subject. *Mon., Wed., at 12 (first half-year)*. 25 O. H. PROFESSOR CRAWFORD. (V.)

Course VI. is elective for those who have taken Course I.

VII.² THERMO-DYNAMICS. A continuation of Course VI., with special application to the steam engine. Conducted mainly by lectures, of which an abstract is furnished. *Mon., Wed., at 12 (second half-year)*. 25 O. H. PROFESSOR CRAWFORD. (V.)

Course VII. is elective for those who have taken Course VI. in physics, and who have taken, or are taking, Course V. in mathematics.

VIII. APPLIED ELECTRICITY. Text-book and lectures. The first half-year is devoted to the theory and construction of dynamos and motors. In the second half-year the subjects studied include electric lighting, storage batteries, electric railways, the telephone, the telegraph, x-rays, and other applications of electricity. *Wed., Fri., at 11*. 25 O. H. PROFESSOR CADY. (IV.)

Course VIII. is elective for those who have taken Course II.

[IX. LIGHT. The first half-year is given mainly to geometrical optics, the second to the wave theory of light. *Twice a week*. PROFESSOR CRAWFORD.]

Course IX. is elective for those who have taken Course I. and who have taken, or are taking, Course V. in mathematics. It is omitted the present year.

X. PRACTICAL PHYSICS. A continuation of Course III., consisting of exact measurements in mechanics, heat, sound, and light, and involving such work as the use of the reversion pendulum, the

determination of coefficients of elasticity, the use of the air thermometer, the determination of wave-lengths of light, indices of refraction, etc. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* PHYS. LAB. PROFESSOR CRAWFORD.

Course X. is elective for those who have taken Course III.

XI. EXPERIMENTAL ELECTRICITY. A continuation of Course IV. The study and testing of dynamos, motors, and other electrical apparatus forms a large part of the work. Opportunity is afforded for some shop-work and for practical experience in running an engine and dynamos. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* PHYS. LAB. PROFESSOR CADY.

Course XI. is elective for those who have taken Courses IV. and VIII.

XII. THEORETICAL ELECTRICITY. This course is based on J. J. Thomson's Mathematical Theory of Electricity and Magnetism. *Tu., Th., at 9.* 25 O. H. PROFESSOR CADY. (VIII.)

Course XII. is elective for those who have taken Course II. in physics and who have taken, or are taking, Course V. in mathematics.

[XIII. ALTERNATING CURRENTS. Text-book and lectures. *Twice a week.* PROFESSOR CADY.]

Course XIII. is elective for those who have taken, or are taking, Course VIII. in physics and Course V. in mathematics. It is omitted the present year.

XIV. ADVANCED EXPERIMENTAL ELECTRICITY. A continuation of Course XI. Opportunity is afforded for extended investigation of problems connected with alternating currents, and also for the experimental study of other important problems in electricity. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* PHYS. LAB. PROFESSOR CADY.

Course XIV. is elective for those who have taken Course XI. and either Course XII. or Course XIII.

XV. JOURNAL MEETING. The instructors of the department meet the graduate students and advanced undergraduates for the purpose of reporting and discussing articles from the current journals of general physics and electricity. *Wed., at 5.* 25 O. H.

XVI. ERRORS OF OBSERVATION AND THE METHOD OF LEAST SQUARES, as applied in the solution of physical problems. This course consists chiefly of reading, supplemented by frequent meetings with the instructor. It forms the equivalent of a one-hour course. PROFESSOR CADY.

Course XVI. is elective for those who have taken Course II. in physics and Course V. in mathematics.

CHEMISTRY.

PROFESSORS ATWATER AND BRADLEY; ASSOCIATE PROFESSOR BENEDICT.

I.¹ ELEMENTARY CHEMISTRY. This course is devoted to the elementary principles of the science. Each student performs a considerable number of experiments in the laboratory. *Tu., Wed., Th., at 10 (first half-year).* 3 J. H. PROFESSORS ATWATER AND BRADLEY. (IX.)

Course I. is required of Classical Sophomores, and of Latin-Scientific Sophomores and Scientific Freshmen who did not pass in chemistry on admission to college.

II.² ELEMENTARY CHEMISTRY. A continuation of Course I. A course of lectures on the general principles and some of the applications of chemistry. *Tu., Th., at 10 (second half-year).* 3 J. H. PROFESSOR ATWATER. (IX.)

Course II. is elective for those who have taken Course I.

III. QUALITATIVE ANALYSIS. A laboratory course in basic, acid, and blow-pipe analysis. Lectures are given on the chemical problems involved in the detection of the more common metals. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week).* CHEM. LAB. PROFESSOR BRADLEY.

Course III. is elective for those who have taken Courses I. and II.

*IV. QUANTITATIVE ANALYSIS. A laboratory course in quantitative analysis and special laboratory exercises adapted to the wants of individual students. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week).* CHEM. LAB. PROFESSORS ATWATER AND BENEDICT.

Course IV. is elective, with the permission of the instructors, for those who have taken Course II. and either Course III. or Course X.

V. ORGANIC CHEMISTRY. Lectures and recitations. The principles of organic chemistry as illustrated by the derivatives of methane and benzene. *Mon., Wed., Fri., at 8.* 3 J. H. PROFESSOR BRADLEY. (I.)

Course V. is elective for those who have taken either Course III. or Course X.

VI.¹ PHYSIOLOGICAL CHEMISTRY. Lectures on selected chapters of physiological chemistry. Especial attention is given to the chemistry of the animal body. *Tu., Th., at 11 (first half-year).* 3 J. H. PROFESSOR ATWATER. (X.)

Course VI. is elective for those who have taken Course II. It is desirable that those who elect it should also elect Course V.

*VII. ORGANIC CHEMISTRY. A laboratory course devoted to the preparation of compounds of carbon. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week).* CHEM. LAB. PROFESSOR BRADLEY.

Course VII. is elective, with the permission of the instructor, for those who have taken, or are taking, Course V.

*VIII. PHYSIOLOGICAL CHEMISTRY. A laboratory course in the preparation of compounds and in methods of analysis of interest in physiological chemistry. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week).* CHEM. LAB. PROFESSORS ATWATER AND BENEDICT.

Course VIII. is elective, with the permission of the instructors, for those who have taken, or are taking, Courses V. and VI.

Courses VI. and VIII. are recommended to those who purpose to study medicine.

IX. ATOMIC THEORY. A series of lectures upon the origin, development, and present status of the theory of the atom and molecule. *Mon., Fri., at 9.* 3 J. H. PROFESSOR BRADLEY. (II.)

Course IX. is elective for those who have taken either Course III. or Course X.

*X. PRINCIPLES OF GENERAL AND ANALYTICAL CHEMISTRY. A laboratory course, involving a study of the properties and reactions of typical elements and compounds, based upon the periodic

classification of the elements. Experimental demonstration of chemical laws and especially of the principles of analysis. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week)*. CHEM. LAB. PROFESSOR BENEDICT.

Course X. is elective, with the permission of the instructor, for those who have taken Course I.

XI.² LIQUEFACTION OF GASES. Lectures, with experimental demonstrations, upon the history and theory of the liquefaction of gases, and upon some of the more important results of research at low temperatures. *Tu., Th., at 8 (second half-year)*. 3 J. H. PROFESSOR BRADLEY. (VII.)

Course XI. is elective for those who have taken Course I.

*XII. CHEMICAL SEMINARY. A course of instruction and reading in biological chemistry. *Mon., Fri., at 5*. PROFESSOR ATWATER.

Course XII. is elective, with the permission of the instructor, for those who have taken, or are taking, Courses V. and VI.

Graduate Instruction.

Course XII., although elective for undergraduates, is designed chiefly for graduates.

Laboratory courses of research in physical, physiological, and organic chemistry may be arranged.

GEOLOGY.

PROFESSOR RICE.

I. GEOLOGY. Elementary course. A course of lectures, chiefly on dynamical and structural geology. Dana's Revised Text-book of Geology is recommended for reference. *Tu., Th., at 12*. 8 J. H. (XI.)

Course I. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores.

II.¹ DYNAMICAL AND STRUCTURAL GEOLOGY. Advanced course. Recitations and lectures, with LeConte's Elements of Geology, and Dana's Revised Text-book of Geology, as text-books. Excursions

are taken on Saturdays during the fall. The phenomena observed in an excursion are discussed at the next meeting of the class, one of the members of the class generally giving a report or lecture. *Mon., Wed., Fri., at 12 (first half-year), counting as four hours a week.* 8 J. H. (V.)

Course II. is elective for those who have taken Course I. It is very desirable, however, that those who take this course should also have taken the course in physical geography.

III.² HISTORICAL GEOLOGY AND PALEONTOLOGY. Recitations and lectures, with same text-books as in Course II. Excursions are taken on Saturdays during the spring (required only of those who take also Course II.). *Mon., Wed., Fri., at 12 (second half-year), counting as four hours a week for those who take also Course II.* 8 J. H. (V.)

Course III. is elective for those who have taken Course I. It is very desirable, however, that those who take this course should also have taken the courses in zoölogy and botany.

IV.¹ PHYSICAL GEOGRAPHY. Recitations and lectures, with Tarr's Elementary Physical Geography as a text-book. *Tu., Th., at 3 (first half-year).* 8 J. H. (XII.)

Course IV. is elective for Classical Sophomores, and is required of Latin-Scientific and Scientific Freshmen who did not pass in physical geography on admission to college.

[V.¹ MINERALOGY. Crystallography and optical mineralogy. Lectures and practical exercises. Dana's Text-book of Mineralogy is used for reference. *Three times a week (first half-year).*]

Course V. is elective for Classical and Latin-Scientific Juniors and Scientific Sophomores. It is omitted the present year.

[VI.² MINERALOGY. Determinative and descriptive mineralogy. Laboratory work in determinative mineralogy, lectures on descriptive mineralogy. Brush and Penfield's Manual of Determinative Mineralogy, and Dana's Text-book of Mineralogy, are used for reference. *Three times a week (second half-year).*]

Course VI. is elective for those who have taken Course V. It is omitted the present year.

Graduate Instruction.

Courses II., III., V., and VI., although intended primarily for undergraduates, have often been taken by graduate students.

Additional work is provided for graduate students. This may include courses of reading in various branches of geological science, field work, or laboratory work.

BIOLOGY.

PROFESSOR CONN.

I. PHYSIOLOGY. The instruction is given chiefly by lectures, Martin's Human Body being used as a text-book. Enough anatomy is given to render the physiological discussions intelligible, and enough hygiene to guide to an intelligent care of the body. *Mon., Wed., at 8.* 8 J. H. (I.)

Course I. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores.

II.¹ GENERAL BIOLOGY. This course is devoted to the study of the simpler laws of life, and the relations of animals and plants. Practical study is made of the earthworm, the frog, and some common plants, which are used as illustrating the general structure and physiology of animals and plants. This course is designed as an introduction to the study of botany, zoölogy, and physiology. *Mon., Wed., 2-4 (first half-year), counting as one hour for the year.* 8 J. H. (VI.)

Course II. is elective for Classical Sophomores, and is required of Latin-Scientific and Scientific Freshmen.

III.² BOTANY. This course is a continuation of Course II., and consists of lectures and recitations, and of a large amount of practical work. It includes the study of physiological, morphological, structural, and microscopic botany. The course begins with the study of cryptogams, followed by a study of phenogams. The last four weeks are devoted to the analysis and description of flowers. *Mon., Wed., 2-4 (second half-year), counting as one hour for the year.* 8 J. H. (VI.)

Course III. is elective for Classical Sophomores, and is required of Latin-Scientific and Scientific Freshmen who did not pass in botany on admission to college.

IV. ZOOLOGY. Lectures and recitations. Typical examples, illustrating the various groups of the animal kingdom, are studied, attention being given rather to the general laws governing living beings than to the systematic classification of species. The course includes the embryology of the various forms studied, as well as their adult anatomy. The last term is devoted to the study of comparative anatomy and general zoological problems. *Mon., Wed., at 9.* 8 J. H. (II.)

Course IV. is elective for Classical Juniors and for Latin-Scientific and Scientific Sophomores.

*V. PRACTICAL BIOLOGY. The design of the courses in practical biology is to furnish opportunity for special biological work along such lines as may be best adapted to the future plans of the student. Those intending to study medicine devote their attention largely to the study of animals, including the dissection of some mammal. Those desiring a more general course make a brief examination of various groups of the animal and vegetable kingdoms.

Those electing the study for more than one year, spend the first year in the study of biology in general, making a careful study of illustrative types of the different groups of the animal and vegetable kingdoms, such as amœba, infusoria, hydra, earthworm, bacteria, yeast, mould, lichens, mosses, flowering plant, etc. The laboratory work is planned to illustrate, as far as possible, the principles of biology, comparative anatomy, and embryology. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* BIOL. LAB.

Course V. is elective, with the permission of the instructor, for Sophomores.

VI. PRACTICAL BIOLOGY. The second year in practical biology is devoted to the study of histology, bacteriology, embryology, and mammalian anatomy. During the second half-year each student may pursue some special work assigned by the instructor. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* BIOL. LAB.

Course VI. is elective for those who have taken Course V.

VII. PRACTICAL BIOLOGY. A course in laboratory work in continuation of Course VI. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* BIOL. LAB.

Course VII. is elective for those who have taken Course VI.

Courses V.-VII. are accompanied by lectures and recitations. The outline of the courses is somewhat variable and is determined according to the purposes and needs of each student.

[VIII.¹ EVOLUTION. A course of lectures and recitations, giving an outline of the general theory of evolution. *Twice a week (first half-year).*]

Course VIII. is elective for Juniors.

IX.¹ BACTERIOLOGY. Conn's Agricultural Bacteriology is used as a text-book, and is supplemented by lectures on pathological bacteriology, special attention being given to sanitary bacteriology. *Tu., Th., at 8 (first half-year).* (VII.)

Course IX. is elective for Juniors. Courses VIII. and IX. are given in alternate years, Course VIII. being omitted the present year.



EXAMINATION GROUPS.

No student is allowed to take more than one course in any of these groups, with the exception of those (bracketed together) which are not given in the same half-year. The following courses are not assigned to any group, and they may be elected without limitation: VI. Latin; III. Greek; III. German; Debate; III. English Language; VI. History; VIII. Economics; III., IV., X., XI., XIV., XV., XVI. Physics; III., IV., VII., VIII., X., XII. Chemistry; V., VI., VII. Biology.

I.—*M., W., F., at 8.*

- V. Greek.
- I. German.
- II. French.
- V. History.
- VI. Mathematics, *M., W.*
- V. Chemistry.
- Physiology, *M., W.*

II.—*M., W., F., at 9.*

- I. Latin, *also Th.*
- XI. Latin, *W., F.*
- III. English Literature.
- IX. Chemistry, *M., F.*
- Zoölogy, *M., W.*

III.—*M., W., F., at 10.*

- I. Greek, *T., W., Th., F.*
- { Psychology.
- { VI. Philosophy, *W., F.*
- { IX. Philosophy, *M.*
- { Ethics, *W., F.*
- { Evidences, *W., F.*
- I. Physics.

IV.—*M., W., F., at 11.*

- { XII. Latin, *F., also W., at 2.*
- { XIII. Latin, *F., also W., at 2.*
- II. German.
- I. French.
- V. English Literature, *M., W.*
- VII. English Literature, *F.*
- I. Economics, *M., W.*
- { XI. Philosophy.
- { XII. Philosophy, *M., W.*
- IV. Mathematics, *W., F.*
- Astronomy, *W., F.*
- VIII. Physics, *W., F.*

V.—*M., W., F., at 12.*

- Dante in English, *M.*
- I. English Literature, *M., W.*
- III. Economics, *M., W.*
- X. Philosophy, *F.*
- I. Mathematics, *M., T., Th., F.*
- IX. Mathematics, *M., W.*
- { VI. Physics, *M., W.*
- { VII. Physics, *M., W.*
- { II. Geology.
- { III. Geology.

- VI.**—*M., W., F., at 3.*
VII. English Language, *W., F.*
III. Philosophy, *M., W.*
 { General Biology, *M., W.*
 { Botany, *M., W.*
- VII.**—*T., Th., at 8.*
V. French, *Th.*
 Advanced Spanish.
***X.** English Language.
I. History.
 Science and Religion.
VIII. Mathematics, *Th., also T., at 2.*
V. Physics.
XI. Chemistry.
***Bacteriology.**
- VIII.**—*T., Th., at 9.*
 { **IV.** Latin.
 { **V.** Latin.
V. German.
I. English Language, *T., also M., at 8 and 9.*
VII. Economics.
XIV. Mathematics.
XII. Physics.
- IX.**—*T., Th., at 10.*
 { **VII.** Latin.
 { **VIII.** Latin.
VIII. German.
IV. French.
 Logic.
 Theism.
 { **I.** Chemistry, *also W.*
 { **II.** Chemistry.
- X.**—*T., Th., at 11.*
II. Greek.
 { **VI.** Greek.
 { **VII.** Greek.
 Italian.
IV. Economics.
 { **IV.** Philosophy.
 { **V.** Philosophy.
II. Mathematics.
II. Physics.
VI. Chemistry.
- XI.**—*T., Th., at 12.*
 { **II.** Latin.
 { **III.** Latin.
III. French.
III. Elocution, *Th.*
II. History, *also F.*
V. Mathematics, *also F.*
XII. Mathematics.
I. Geology.
- XII.**—*T., Th., at 3.*
 { **IX.** Latin.
 { **X.** Latin.
 { **VI.** German.
 { **VII.** German.
IV. English Language.
II. Elocution.
 { **VII.** Philosophy.
 { **VIII.** Philosophy.
 Physical Geography.

* May be elected with Science and Religion.

SELECTION OF STUDIES.

The studies which are required of students in the respective classes and courses are indicated below. In addition to these, each student of the three upper classes is required to elect such a number of studies that his *average* number of recitations and lectures a week for the year, exclusive of rhetorical exercises, shall be not less than 14 nor more than 17. The minimum requirement for Freshmen is 15 recitations and lectures a week for the year, exclusive of declamations; the maximum is 17. Elections must be made in accordance with the restrictions specified in the description of the respective courses in the foregoing statement of the courses of instruction.

SCHEDULE OF REQUIRED STUDIES.

N. B.—The numbers in *italics* indicate the average number of hours a week for the year.

CLASSICAL COURSE.

FRESHMEN:—I. Latin, 4; I. Greek, 4; I. Mathematics, 4; I. English Language, 2; I. German, or I. French, 3.

SOPHOMORES:—Logic, 1; I. Physics, 2½; I. Chemistry, 1½.

JUNIORS:—Psychology, 1½; I. Economics, 2. (I. Economics may be postponed to the Senior year, or may be taken, with the permission of the instructor, in the Sophomore year.)

SENIORS:—Ethics, 1; Evidences of Christianity, 1.

LATIN-SCIENTIFIC COURSE.

FRESHMEN:—I. Latin, 4; I. Mathematics, 4; I. English Language, 2; Physical Geography, General Biology, and Botany, 3; I. or II. French, or I. or II. German, 3. (See page 45.)

SOPHOMORES:—Logic, 1; I. Physics, 2½; I. Chemistry, 1½.

For such part of the courses in science or modern languages above named as students may have passed in at entrance, they are allowed to substitute enough elective work to fill out the required quota of exercises a week.

JUNIORS:—Psychology, $1\frac{1}{2}$; I. Economics, 2. (See requirements for classical course.)

SENIORS:—Ethics, 1; Evidences of Christianity, 1.

SCIENTIFIC COURSE.

FRESHMEN:—Not less than fifteen hours a week of the following courses: I. Mathematics, 4; I. English Language, 2; I. German, 3, and II. French, 3, or II. German, 3, and I. French, 3 (see page 45); I. Physics, $2\frac{1}{4}$; I. Chemistry, $1\frac{1}{2}$; Physical Geography, General Biology, and Botany, 3.

For such of these studies as students may have passed in at entrance, they are allowed to substitute elective work.

SOPHOMORES:—II. German, 3, or II. French, 3 (see page 45); Logic, 1; Astronomy, 2; Geology, 2; Physiology, 2.

JUNIORS:—Psychology, $1\frac{1}{4}$; I. Economics, 2. (See requirements for classical course.)

SENIORS:—Ethics, 1; Evidences of Christianity, 1.

In addition to the courses indicated in the foregoing statement, exercises in English composition and in public speaking are required of Freshmen and Sophomores, exercises in English composition of Juniors, and exercises either in English composition or in public speaking of Seniors. (See pages 47, 48, 50.)

DAILY PROGRAM.

The order of lectures and recitations is set forth in the table given on pages 74 and 75. In that table the sign (*) indicates that an exercise occurs only occasionally, the particular days to be announced by the instructor. Roman numerals preceding the names of certain studies refer to the numbers of the courses as enumerated in the foregoing statement of courses of instruction. Arabic numerals, following the names of certain studies, indicate the sections into which the classes are divided.

II.	<p>I. Latin, 2. II. German. I. French, 1. V. English Literature. I. Economics. XI. Philosophy (1st half).</p>	<p>I. Mathematics, 2. I. Chemistry (1st half). II. Chemistry (2d half).</p>	<p>I. Latin, 2. II. Greek. VII. Greek (1st half). V. English Literature. I. Economics. XI. Philosophy (1st half).</p>	<p>I. Latin, 2. II. German. I. French, 1. V. English Literature. I. Economics. XI. Philosophy (1st half).</p>	<p>I. Mathematics, 2. I. Chemistry (1st half). II. Chemistry (2d half). Declaration (Freshmen, 1)*</p>	<p>I. Latin, 2. XII. Latin (1st half). XIII. Latin (2d half). II. German. I. French, 1. VI. English Literature.</p>
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<p>I. French, 2. III. Philosophy. III., IV., VII., Chemistry. General Biology (1st half). Botany (2d half).</p>	<p>IX. Latin (1st half). X. Latin (2d half). VI. German (1st half). VII. German (2d half). IV. English Lang. (1st half). II. Elocution. VIII. Philosophy (1st half). VIII. Philosophy (2d half). III., IV., X., XI., XIV. Physics. General Biology (1st half). Botany (2d half). V., VI., VII. Biology.</p>	<p>IX. French, 2. VII. English Lang. (1st half). III. Philosophy. III., IV., X., XI., XIV. Physics. III., IV., VII., VIII., X. Chemistry. General Biology (1st half). Botany (2d half). V., VI., VII. Biology.</p>	<p>IX. Latin (1st half). X. Latin (2d half). VI. German (1st half). VII. German (2d half). IV. English Lang. (1st half). II. Elocution. VIII. Philosophy (1st half). VIII. Philosophy (2d half). III., IV., X., XI., XIV. Physics. Physical Geog. (1st half). V., VI., VII. Biology.</p>	<p>IX. Latin (1st half). X. Latin (2d half). VI. German (1st half). VII. German (2d half). IV. English Lang. (1st half). II. Elocution. VIII. Philosophy (1st half). VIII. Philosophy (2d half). III., IV., X., XI., XIV. Physics. Physical Geog. (1st half). V., VI., VII. Biology.</p>
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GENERAL REGULATIONS.*

QUOTA OF STUDIES.

For students of the three upper classes, the quota of regular studies is not less than fourteen hours nor more than seventeen hours of class-room work a week, exclusive of rhetorical exercises. The quota for Freshmen (see pages 72 and 73) varies from fifteen to seventeen hours of class-room work a week, exclusive of declamations. No student is allowed to take less than fourteen hours nor more than seventeen hours of work a week without special permission from the Faculty.

GRADES.

The general character of the work of each student in each study is indicated by his assignment to one of five grades, grade 1 denoting the highest excellence, and grade 5, failure to pass. The Secretary of the Faculty sends to each student, within three weeks after Commencement, a report of his grades in all the studies which he has taken during the year.

EXAMINATIONS.

Regular examinations are held at the end of the college year, and during a specified period in February. No student who has been absent from fifteen per cent. or more of the required exercises in any study can be admitted to examination in that study, except by special permission from the Faculty. Such permission may be accorded when the Faculty are convinced that the absences have not been due to culpable negligence. In the application of this rule, absences from the first or the last exercise of a term in any study, or consecutive absences including the first or the last exercise, are each reckoned as two absences. Absences of the same nature before or after the Thanksgiving recess are each reckoned as two absences.

* Copies of the detailed Regulations may be obtained from the Secretary.

To students who, for any reason, have not passed at a regular examination, opportunities for special examinations are given at specified times. A student who fails to pass a final examination in any study before that study is taken up by the next succeeding class, is required, unless specially excused therefrom, to recite with that class. If, at the close of the special examinations held at the beginning of the year, a student is deficient by an amount equivalent to six or more hours of work a week for a year, he is ranked with the next lower class, unless specially excused therefrom by the Faculty.

ENTRANCE CONDITIONS.

A student who fails to make up entrance conditions before the first day of November of the next college year, is excluded from all recitations until the conditions are made up.

PUBLIC WORSHIP.

Devotional services, at which the attendance of students is required, are held in Memorial Chapel every morning.

Every student is required to attend the Sunday morning service in some one of the churches in the city.

Voluntary religious services under the direction of the Young Men's Christian Association are held weekly.

ATHLETIC AND MUSICAL ORGANIZATIONS.

No member of the Senior or Junior class who is deficient in his college work more than two hours a week for a year, and no member of the Sophomore class who is deficient more than three hours a week for a year, is allowed to take part, as a member of a University athletic team, in any athletic contest, except by special permission; and any student whose college work becomes unsatisfactory at any time during the year may be debarred from taking part in such a contest.

Members of the college musical organizations, who are deficient as specified in the preceding paragraph, are not allowed to appear in public concerts given by those organizations.

No student under censure is allowed to serve, without permission of the Faculty, in any capacity on an athletic organization or on a musical association giving public concerts.

LEAVE OF ABSENCE

A student who desires excuse from college exercises on account of absence from town must apply to the President for permission to be absent, and, unless the circumstances of the case render it impracticable, such permission must be obtained before the student's departure.

EXPENSES.

The annual charges in the Treasurer's bill are as follows:—

Tuition, - - - - -	\$75 00
Rent and care of half-room, unfurnished, from \$18 to \$40; average, - - - - -	29 00
Steam heat; average for half-room, - - - - -	8 00
Incidentals (lighting, heating, and care of public rooms, gymnasium fee, etc.), - - - - -	27 00
Use of library and reading-rooms, - - - - -	6 00
Total, - - - - -	\$145 00

For the laboratory courses in physics, chemistry, and biology, fees are charged, which vary with the nature of the course and with the number of exercises elected per week. The fee for each exercise per week in practical physics, in practical biology, and in III., VIII., and X. Chemistry, is five dollars; in IV. Chemistry, eight dollars; and in VII. Chemistry, ten dollars. In the chemical courses named, a moderate additional charge is made for breakage.

Women students must reside in the Women's Hall unless they live in their own homes in the city. Those residing in the Women's Hall are charged at the rate of five dollars and a half a week for board and room-rent. Those residing in the city are charged two dollars a term for the use of the study-room in the Women's Hall.

A diploma fee of five dollars is charged to each student at graduation.

A diploma fee of ten dollars is charged to each graduate student upon promotion to the Master's degree.

The college bills are payable at the commencement of each term; a rebate of one dollar is made on all college bills that are paid on or before the day appointed. Unless the bill for any term is paid, or payment thereof guaranteed, before the commencement of the following term, the student is liable to exclusion from recitations.

No student can have an honorable dismissal, or certificate of progress in his studies, until his bills are paid or payment thereof guaranteed.

A student who is absent from college on account of sickness, or for other cause, and who retains his place in his class, must pay the full college bills during his absence.

The rooms in the college buildings are rented to students during term time only, and must be vacated at the close of the third term. Students are held accountable for any damage done to their rooms. During the summer vacation the rooms are put in order, and the expense charged to the occupants.

Male students are permitted to take lodgings in town, but the places in which they room or board are in all cases subject to the approval of the Faculty. If any of the rooms in the college are thus left vacant, the rent of such rooms may be charged to holders of free scholarships who room in town.

Board may be obtained in private families at prices varying from \$3.75 to \$5.00 a week. The college fraternities maintain clubs which supply board to their members at prices ranging from \$3.00 to \$4.00 a week. The price of board at the college commons is \$2.35 a week.

Other expenses incident to college life vary with the habits and circumstances of the student. They are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and health have been compelled to leave the college for want of money.

THE COMMONS.

In order to reduce the expense of a college course, the college maintains a commons, where board may be obtained at a low rate. The dining hall affords accommodation for about one hundred boarders. There is also a sitting-room which serves as a library and

reading-room. The upper rooms of the house are rented unfurnished for dormitory purposes, at lower rates than the rooms in North College.

The members of the commons have organized a social and literary club, which meets once a week and gives some attention to debate and to various literary exercises.

The college is responsible for the general management of the commons, the details being in charge of a matron who is responsible to a college officer. Bills are paid into the college treasury, and the college assumes all financial responsibility. The rate of board has been fixed at two dollars and thirty-five cents a week.



MATERIAL EQUIPMENT.

LIBRARY AND READING-ROOMS.

THE LIBRARY in Rich Hall contains about sixty-four thousand volumes. The library is open every week-day of the college year from 8:15 A. M. to 10 P. M. Students are allowed direct access to the shelves. Copies of the library rules may be obtained from the Librarian.

The increase of the Library is provided for from the income of funds amounting to \$65,000. The Alumni Library Endowment of \$35,000 is the aggregate of numerous gifts from alumni and friends of the University. The Hunt Library Endowment of \$30,000 was willed to the University by the late Rev. Albert Sanford Hunt, D. D., of the class of 1851.

On the first floor of North College is a reading-room, provided with daily and weekly newspapers. Another reading-room, on the second floor of Rich Hall, contains the current issues of the most important magazines, journals, and reviews, literary and scientific, American and foreign.

ASTRONOMICAL OBSERVATORY.

THE OBSERVATORY is used for purposes of instruction, and is well equipped therefor. Students in astronomy have frequent opportunities to examine the most interesting celestial objects through the telescope; and members of the class in practical astronomy are instructed in the theory and use of all the instruments in the observatory.

The principal instruments are an equatorial of twelve inches aperture, by Alvan Clark & Sons, provided with a filar micrometer, a polarizing photometer, and spectroscopes, solar and stellar, two of which have very high dispersive power; a transit instrument of three inches aperture, with collimators of the same aperture, and adapted to use as a zenith telescope; a prime vertical instrument of the same size; sextants; two astronomical clocks; a chronometer; and a chronograph.

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LABORATORIES AND APPARATUS.

THE LABORATORY OF EXPERIMENTAL PSYCHOLOGY contains a collection of apparatus for illustration and experiment in the field of physiological and experimental psychology. The equipment is sufficient for a thorough elementary course and for some advanced research, particularly in the psychology of vision. Among the principal pieces of apparatus are models of the nervous system, a Hipp chronoscope, Helmholtz's rotation apparatus, Schumann's "Zeitsinn" apparatus, a chronograph, a pendulum-tachistoscope, an ocular kinetograph, a sphygmograph, a plethysmograph, stereoscopes, tuning-forks, electrical supplies, etc. The laboratory occupies at present No. 7 South College.

THE PHYSICAL LABORATORY is equipped with apparatus for the performance of the experiments usually undertaken in undergraduate courses, and offers also opportunity, in certain lines, for advanced work on the part of graduate students. In the department of electricity, facilities are afforded for instruction in the use of the most important electrical instruments and machines, and for extended tests and investigations. The laboratory work in all departments except electricity is carried on in Observatory Hall. The electrical work is carried on partly in the dynamo-room and partly in a separate laboratory closely adjacent. The dynamo-room contains a 25 horse-power engine, several dynamos and motors, transformers, and a variety of testing instruments. Part of the current required for lighting the college buildings is generated in the college dynamo-room, advanced students in the electrical courses being employed as engineers.

By the munificence of Mr. Charles Scott and Mr. Charles Scott, Jr., of Philadelphia, Pa., provision has been made for a new and commodious physical laboratory to be known as the John Bell Scott Memorial, which is now in process of erection and will be ready for occupancy at the opening of the next college year.

THE CHEMICAL LABORATORY occupies seven rooms in Judd Hall. A large working-room on the first floor, with a balance room adjoining, furnishes accommodations for about fifty students, and smaller rooms afford conveniences for the work of instructors, assistants, and graduate students. Two other rooms on the first floor are used for library, seminary, and office purposes. A large room in the basement serves for the laboratory work of the required course in elementary chemistry.

THE CRYOGENIC LABORATORY furnishes facilities for demonstration and for research at low temperatures. Its main equipment consists of a complete liquid air plant, including a kerosene motor, a Norwalk compressor capable of delivering about 12 cubic feet of air per minute at a pressure of 3,000 pounds, and a liquefier. The capacity of the liquefier is about $2\frac{1}{2}$ liters of liquid air per hour.

THE BIOLOGICAL LABORATORY occupies six rooms in Judd Hall, and is capable of accommodating about thirty students. Four rooms are used for general laboratory purposes, of which one is devoted to miscellaneous laboratory work, one to physiological work, one to coarse dissection, and one to bacteriological work. The laboratory is equipped with all the apparatus necessary for elementary biological work, and is provided with an abundance of material for anatomical and histological study. The general laboratory room contains a type collection illustrating all orders of animals, and students are allowed to use the large museum collection for comparison and direct study.

THE MACHINE SHOP occupies the west room in the boiler house, and is in charge of a skilled mechanic. It is equipped with first-class power lathes, planer, shaper, etc., and affords ample facilities for the construction of new apparatus, for purposes both of demonstration and of investigation; for the repair of apparatus already in use; and, to a limited extent, for the instruction of advanced students who have exceptional mechanical aptitude.

MATHEMATICAL MODELS. This collection, the gift of Ebenezer Hill, Esq., of the class of 1870, comprises a complete set of the models made by Brill of Darmstadt, for illustration in the higher branches of mathematics, as well as in mathematical physics and crystallography. The models are arranged in a series of cases in the mathematical reading-room in Observatory Hall.

GYMNASIUM AND ATHLETIC FIELD.

THE FAYERWEATHER GYMNASIUM is located on the north side of the rear campus, parallel with Wyllys Avenue. Its dimensions are 55 by 120 feet.

The basement contains two bowling alleys, a baseball cage, baths, lockers, and toilet rooms. On the first floor is the main hall of the

gymnasium, which is well equipped and affords ample room for every variety of gymnastic exercise. The director's office and rooms for baths and lockers are also on the first floor. The running track is suspended from the roof, above the main floor. On the second floor is a trophy room, used also as a committee room by the various athletic organizations, as well as additional baths and lockers. Special attention has been paid to ventilation, drainage, and lighting, and the building is believed to contain the best features of a modern gymnasium.

The gymnasium is in charge of a competent director, who is a graduate of a medical school. Exercise in the gymnasium is required of the men of the Freshman and Sophomore classes, three hours a week, from Thanksgiving to the end of the winter term. Elective work in the gymnasium is offered to the men of the Junior and Senior classes.

THE ANDRUS FIELD lies in the rear of the main line of college buildings, just south of the gymnasium. A quarter-mile cinder track, with a "straight-away" of 100 yards, encircles one portion of the field, within which ample room is afforded for baseball, football, and field and track athletics. An outdoor board track has recently been built by one of the college fraternities. It is about thirteen laps to the mile, and is banked at the corners. The entire field, covering seven acres, provides sufficient space for class and 'varsity teams to practice at the same time. Its proximity to the college enables the whole student body to keep in touch with the training in all branches of athletics, and affords the teams an opportunity to use the dressing rooms and baths reserved for them in the gymnasium.

A covered grand stand, capable of seating four hundred persons, has recently been erected at the southern end of the field.

MUSEUM.

THE MUSEUM OF NATURAL HISTORY AND ETHNOGRAPHY occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with special reference to their educational use, and are freely accessible to students.

The nucleus of the departments of zoölogy and botany was formed by the Shurtleff collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The Zoölogical Department received in the years between 1872 and 1881 most important accessions in liberal donations and exchanges from the Smithsonian Institution, and in collections made by the curators on the coast of New England, through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland also added large and valuable collections. Valuable collections of insects were presented by Richard L. de Zeng in 1896, and by Mrs. E. K. Hubbard in 1898. This department includes about thirteen thousand species. The vertebrata of North America, the marine invertebrata of New England, and the mollusca in general, are especially well represented.

The Herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many specimens from foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the University in 1879.

The Mineralogical Department includes about three hundred and fifty species, and a much larger number of varieties. The Franckfort collection, purchased in 1858, contains many choice specimens, mostly from European localities. The minerals of the interesting region in which Middletown is situated are well represented by collections commenced by the labors of Professor Johnston (1835-1868), and largely increased in later years. Important accessions were obtained in 1899 by collecting trips to Nova Scotia and to Herkimer County, N. Y.

The Geological Department includes collections in lithology, physical geology, and paleontology. The lithological collection received in 1897 a most valuable accession in the gift of a set of the educational series of rock specimens described in Bulletin No. 150 of the U. S. Geological Survey, presented by the Survey. A suite of Ward's casts of fossils, presented by Orange Judd, M. A., in 1871, serves an excellent purpose in the work of instruction, affording the student a representation of many remarkable forms of ancient life, actual specimens of which are rare or unique. A valuable collection of Tertiary fossils was received in 1887 from the Smithsonian Institution, in exchange for duplicate shells from the Shurtleff collection. The collections in paleontology have been very largely increased since 1893 by the work of the present curator in the vicinity of Middletown, at Valcour Island, Lake Champlain, in western Maryland, in

the vicinity of Chattanooga, Tenn., Canon City and Florissant, Col., and Fossil, Wyo., and in Nova Scotia. A choice collection of European fossils, including a number of beautiful specimens from the lithographic limestone of Solenhofen, was received in 1895 from the Museum of Munich, in exchange for American fossils. The private collection of Mr. Loper, purchased for the museum in 1900, is very rich in fossil fishes and plants from the fossiliferous shales of the vicinity of Middletown.

The Ethnographical Department is especially rich in specimens illustrating the life of the Aborigines of North America. Important contributions of pottery, casts of implements, models of dwellings, and other objects have been received from the Smithsonian Institution. A very valuable collection of objects from burial mounds near Chattanooga, Tenn., was deposited in the museum in 1896 by A. R. Crittenden, and has since then been purchased. The private collection of Mr. Loper, purchased in 1903, contains many interesting Indian relics from the vicinity of Middletown. The department also possesses a valuable collection of pottery from the guano beds of Peru, presented by Joseph S. Spinney; an interesting collection of weapons and other objects from the South Sea Islands; a collection of relics from Assuan, Egypt, presented by Clarence S. Wadsworth, B. A.; and valuable collections of objects illustrative of Chinese life and customs, presented by Rev. Marcus L. Taft, D. D., and by Mrs. W. W. Wilcox. The collection of coins numbers over 3,000, exclusive of duplicates. Included in this number is a collection of about 1,800 Chinese coins, some of which are ancient and very rare, presented by Rev. Marcus L. Taft, D. D. Another collection of Chinese coins, numbering over 200, and representing the series of dynasties from the fifth century B. C. to the present time, was received in 1903 from Rev. John Gowdy, B. A., of the Anglo-Chinese College, Foo Chow. The greater part of the ethnographical collection is at present arranged in the lower hall of the museum, with the collections in mineralogy and geology. The coins (with the exception of a small selection placed on exhibition in the museum) are kept in a case in the library, where they can be seen by students and others on special application. Small collections illustrative of classical archæology are kept in the seminary rooms.

The following is an approximate statement of the number of specimens in the various departments of the museum:—

DEPARTMENT OF ZOÖLOGY.

Mammals—skins mounted and unmounted,	-	-	-	200
alcoholic, -	-	-	-	50
skulls and skeletons, -	-	-	-	110
Birds—skins mounted and unmounted,	-	-	-	1,700
nests and eggs, -	-	-	-	600
Reptiles, -	-	-	-	350
Amphibians, -	-	-	-	150
Fishes, -	-	-	-	2,100
Insects—pinned and alcoholic,	-	-	-	6,500
nests, borings, etc., -	-	-	-	50
Crustacea, -	-	-	-	1,500
Worms, -	-	-	-	1,800
Mollusks—shells, -	-	-	-	90,000
alcoholic, -	-	-	-	4,000
Echinoderms, -	-	-	-	1,000
Coelentera, -	-	-	-	1,700
Sponges and protozoa, -	-	-	-	150

DEPARTMENT OF BOTANY.

Plants in herbarium, -	-	-	-	10,700
Specimens of wood, -	-	-	-	300
Miscellaneous botanical specimens, -	-	-	-	1,100

DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks, -	-	-	-	16,000
Fossils—Paleozoic, -	-	-	-	11,500
Mesozoic, -	-	-	-	3,000
Cenozoic, -	-	-	-	3,000

DEPARTMENT OF ETHNOGRAPHY.

Miscellaneous ethnographic specimens, -	-	-	-	3,000
Coins, -	-	-	-	5,250

The museum is open to the public on Wednesday and Saturday afternoons.

SCHOLARSHIPS.

TUITION SCHOLARSHIPS.

Each year the Trustees place at the disposal of the President, for the benefit of needy and worthy students, a sum of money which is used to pay, in whole or in part, the charge for tuition.

In addition to these tuition scholarships are the following:—

THE JOHN EVANS SCHOLARSHIP.

This scholarship was founded by Mrs. Ann Evans in memory of her husband. The income is about one hundred dollars, and is given annually to that member of the Senior or Junior class who is named by the Board of Trustees, or by some authority to whom they may delegate the nomination. For this scholarship, only such students as are preparing themselves for the ministry, and are already licentiates in the Methodist Episcopal Church, can be candidates.

THE SQUIRE SCHOLARSHIP.

This scholarship was founded by Hon. Watson C. Squire, B. A., of the class of 1859. In accordance with its provisions, the income of \$5,000 is awarded to that member of the Senior class who passes the best examination in Greek, provided that the successful candidate devote the ensuing year to classical study, in residence in the University, or in connection with travel or residence abroad, at his option, subject to the approval of the Committee on Graduate Instruction.

THE JONES SCHOLARSHIP.

This scholarship was founded by Frank S. Jones, Esq. The income, amounting to fifty dollars, is available, at the discretion of the President, for the use of a deserving student who needs pecuniary assistance.

THE BILLINGS SCHOLARSHIP.

This scholarship was founded by William Perry Billings, Esq. The income, amounting to seventy-five dollars, is available, at the discretion of the President, to pay the tuition of a deserving student who needs pecuniary assistance.

THE SHONK SCHOLARSHIPS.

These scholarships were founded by John J. Shonk, Esq., and Mrs. Ida Shonk in memory of Hon. George W. Shonk, B. A., of the class of 1873. The income of \$5,000 is available, at the discretion of the President, to pay the tuition of deserving students who need pecuniary assistance.



COLLEGE HONORS.

PRIZES.

The Harrington Prize, the gift of Rev. Edmund Mead Mills, D. D., in memory of Professor C. S. Harrington, is awarded for the best essay on some specified subject in the department of history. The subject for the essay of 1904 is: The History of the Last Years of the Colony of Connecticut (1763-1774).

The Joseph D. Weeks Prize, the gift of Joseph Dame Weeks, M. A., is awarded for the best essay on some specified subject in the department of economics. The subject for the essay of 1904 is: The Organization of Labor; History, Methods, and Results. The essays must be left with the head of the department on or before the third Monday in May (May 16, 1904).

The Peirce Prize, the gift of Rev. Bradford K. Peirce, D. D., is awarded for excellence in natural science. It will be given in 1904 upon a special examination based on Course I. in biology. The subject of the examination in 1905 will be chemistry; in 1906, geology.

The Phi Beta Kappa Prize is awarded for excellence in Latin. It will be given in 1904 upon a special examination on the work of the courses in Roman numismatics and Latin palæography, with some collateral readings and tests.

The G. Brown Goode Prize, the gift of Mrs. G. Brown Goode, is awarded for the best original investigation in the department of natural history.

No person who has once taken either the Harrington, the Joseph D. Weeks, the Phi Beta Kappa, or the G. Brown Goode prize, may compete for it again.

The Weeks Prize, the gift of Joseph Dame Weeks, M. A., is awarded for excellence in modern philosophy. It will be awarded in 1904 for the best examination in Courses VII. and VIII. in philosophy, and for additional work to be assigned by the instructor.

The Camp Prize, the gift of the late Samuel T. Camp, Esq., is awarded for excellence in English literature. It will be given in 1904 upon a special examination in Course I. in English literature.

The Johnston Prize, the gift of Rev. David G. Downey, D. D., in memory of Professor John Johnston, is awarded for excellence in electricity. It will be given in 1904 upon a special examination based on Course II. in physics.

The Spinney Prize, the gift of Mrs. Joseph Spinney, is awarded for excellence in Greek. It will be given in 1904 for special work based in part on the first half of Course II. in Greek.

The Rice Prize, the gift of Rev. William Rice, D. D., is awarded for excellence in mathematics. It will be given in 1904 upon a special examination based on Course V. in mathematics.

Students who compete for either the Weeks, the Camp, the Johnston, the Spinney, or the Rice prize must do so during the year in which they regularly pursue the course or courses on which the examination for the prize is based.

The Wise Prize, the gift of Rev. Daniel Wise, D. D., is awarded to that member of the Senior class who excels in ethics.

The Walkley Prize, the gift of Webster R. Walkley, M. A.,—*in memoriam* David Hart Walkley, graduated June, 1878; died September 16, 1878,—is awarded to that member of the Junior class who excels in psychology. It will be awarded in 1904 for the best examination on the work of the required course in psychology, together with additional work to be assigned by the instructor.

The Sherman Prize, the gift of Rev. David Sherman, D. D., is awarded this year to that member of the Freshman class who excels in Latin. The examination is based on the first half of Course I. in Latin, with some additional readings. The subject of the examination in 1905 will be Greek; in 1906, mathematics.

The Ayres Prize, the gift of Daniel Ayres, M. D., LL. D., is awarded to that member of the Freshman class who is found upon a special examination, held shortly after the beginning of the college year, to have attained the highest excellence in the studies preparatory to admission to the classical course.

The Rich Prize, the gift of Mrs. Isaac Rich, is awarded to that member of the Senior class whose oration at Commencement is

deemed best in composition and delivery. The orations must not exceed twelve hundred words in length, and must be left with the Professor of English Literature on or before the second Tuesday preceding Commencement (June 21, 1904).

The Olin Prize, the gift of Mrs. Julia M. Olin, is awarded to that member of the Senior class who excels in English composition. The subject for the essay of 1904 is: Ralph Waldo Emerson. The subject for the essay of 1905 is: Rudyard Kipling: an Estimate and a Prediction. Essays must be left with the Professor of English Literature on or before the first Monday of the third term (April 11, 1904).

Two prizes are awarded, as a first and second prize respectively, to the two members of the Junior class who present the best orations at the annual Junior Exhibition. In the award of these prizes, both the composition and the delivery of the orations are considered. The orations must be left with the Professor of the English Language on or before the first Saturday in the third term (April 9, 1904).

The Briggs Prize, the gift of James E. Briggs, Esq., is awarded to the student who excels in debate. No person who has once taken the Briggs prize may compete for it again.

The Parker Prize, the gift of Rev. John Parker, for excellence in declamation, is awarded to the best speaker in the Junior and Sophomore classes.

A second prize is awarded, in the same classes, for excellence in declamation; but, in the competition for it, selections of a dramatic character, and from poetry, are excluded.

The Hibbard Prize, the gift of Professor Ralph G. Hibbard, M. A., is awarded to that member of the Freshman class who excels in declamation.

The Taylor Prize, the gift of Rev. George Lansing Taylor, D. D., is awarded to that student who presents the best English poem. The poem must be left with the Professor of English Literature before the Senior examinations.

Competition for the Rich prize, the Junior Exhibition prizes, the Briggs prize, the Parker prize, the second prize for declamation, and the Hibbard prize, is limited to men.

The several committees of award will withhold any prize, if, in their judgment, none of the exercises presented in competition for it possess the requisite merit.

AWARD OF PRIZES, 1902-1903.

The Harrington Prize, to ARION TAYLOR ADAMS, 1903.

Committee of Award:—Honorable Simeon Eben Baldwin, LL. D., Associate Judge of the Supreme Court of Errors of Connecticut, and Professor of American Constitutional and Private International Law in Yale University.

The Joseph D. Weeks Prize, to JOHN WILLIAM LANGDALE, 1903.

Committee of Award:—Professor George Ray Wicker, Ph. D., of Dartmouth College.

The Peirce Prize, to ZIBA PLATT BENNETT, 1903, and OLIN INGRAHAM, 1904.

The Phi Beta Kappa Prize, to PAUL NIXON, 1904.

The Weeks Prize, to JOHN WILLIAM LANGDALE, 1903.

The Camp Prize, to STEWART FREEMAN HANCOCK, 1905.

The Johnston Prize, to GEORGE GREENWOOD REYNOLDS, 2d, 1905.

The Spinney Prize, to GEORGE EDMUNDS TOLMAN, 1905.

Committee of Award:—Professor Charles Burton Gulick, Ph. D., of Harvard University.

The Rice Prize, to GEORGE GREENWOOD REYNOLDS, 2d, 1905.

Committee of Award:—Professor Edward Bennett Rosa, Ph. D., of the National Bureau of Standards, Washington, D. C.

The Wise Prize, to JOHN WILLIAM LANGDALE, 1903.

The Walkley Prize, to FRANK NUGENT FREEMAN, 1904.

The Sherman Prize, to CHARLES MABBETT TRAVIS, 1906.

Committee of Award:—Same as for the Rice Prize.

The Rich Prize, to OLIN MASON CAWARD, 1903.

Committee of Award:—Professor Arthur Lincoln Gillett, D. D., of the Hartford Theological Seminary; Mr. Edward Hawes Smiley, M. A., of the Hartford High School; and Reverend Charles Edward Davis, M. A., of Westfield, Mass.

The Olin Prize, to JAMES GARFIELD BERRIEN, 1903.

Committee of Award:—Professor Carroll Lewis Maxcy, M. A., of Williams College.

The First Junior Exhibition Prize, to HAROLD EDMUND WILSON, 1904.

Committee of Award:—Reverend Charles Wesley McCormick, D. D., of Hartford; Reverend Frederick Joseph Kinsman, M. A., of the Berkeley Divinity School, Middletown; and William Walter Wilcox, Jr., B. A., of Middletown.

The Second Junior Exhibition Prize, to RALPH WELLES KEELER, 1904.

Committee of Award:—Same as for the First Junior Exhibition Prize.

The Briggs Prize, to ASA RUSSELL GIFFORD, 1904.

The Parker Prize, to HAROLD EDMUND WILSON, 1904.

Committee of Award:—Reverend Francis Theodore Brown, B. A., of Middletown; Clarence Everett Bacon, M. A., of Middletown; and Reverend John Henry Bell, Ph. D., of New Britain.

The Second Prize in Elocution, to EDWIN CHESTER JONES, 1904.

Committee of Award:—Same as for the Parker Prize.

The Hibbard Prize, to JAMES AUGUSTUS WILSON, 1906.

Committee of Award:—Same as for the Parker Prize.

The Taylor Prize, to LUCIUS LOREN PALMER, 1903.

The Ayres Prize, for the current year, to RAY ROOD ALLEN, 1907, prepared at Wyoming Seminary, Kingston, Pa.

APPOINTMENTS FOR JUNIOR EXHIBITION AND COMMENCEMENT.

The Junior Exhibition is held on the third Thursday evening of the spring term (April 21, 1904). The speakers are selected from the men of the Junior class according to their grade in composition and declamation subsequent to the Freshman year. The speakers at Commencement* are selected from the men of the Senior class according to their grade in the rhetorical exercises of the Junior and the Senior year, the declamations of the Sophomore year, and Course II. in elocution. The grades of those students who elect, and of those who do not elect Course II. in elocution, are reduced to the same scale for the purpose of this selection. The number of speakers at each of these public exercises is limited to eight.

The speakers last year were:—

JUNIOR EXHIBITION.

JOHN BENTLEY, JR.,

PAUL NIXON,

ASA RUSSELL GIFFORD,

HENRY ADELBERT WHITE,

RALPH WELLES KEELER,

HAROLD EDMUND WILSON.

* Owing to the special exercises in commemoration of the Wesley Bicentennial, the competition for the Rich prize was held on Friday evening, June 26, in Memorial Chapel, instead of Commencement day. (See Rich Prize, page 91.)

COMMENCEMENT (RICH PRIZE COMPETITION).

ZIBA PLATT BENNETT,	JOHN WILLIAM LANGDALE,
JAMES GARFIELD BERRIEN,	FLOYD SWALLOW LEACH,
THOMAS PERCIVAL BEYER,	ARCHIBALD CAMPBELL MCKILLOP,
OLIN MASON CAWARD,	MYRON JOHN WILLSON.

HONORS IN SCHOLARSHIP.

I. HONORS IN GENERAL SCHOLARSHIP.—Two grades of honor, designated respectively as honors and high honors, are conferred at graduation, based upon the general scholarship of the student throughout his whole course.

An honor in general scholarship is awarded to a student who has received a grade not below third on an aggregate of not less than 62 hours' work, as reckoned in the record of standings, has received first grade on a number of hours' work not less than the part of the 62 hours' work on which he has received third grade, and has not fallen below fourth grade in any study of the course.

A high honor in general scholarship is awarded to a student who has received a grade not below second on an aggregate of not less than 62 hours' work, has received first grade on an aggregate of not less than 50 hours' work, and has not fallen below third grade in any study of the course.

II. PRELIMINARY HONORS.—Preliminary honors are awarded in the departments of classics and mathematics at the end of the Sophomore or Junior year, and no student can receive special honors at graduation in Greek, Latin, or mathematics, who has not previously received the corresponding preliminary honors. Notice of candidacy for preliminary honors must be given to the senior officer of the department, and to the Secretary of the Faculty, as early as the first Monday of the third term of the year in which the candidate intends to present himself for the special examination (April 11, 1904). The case of each candidate is decided by the Faculty. The special regulations concerning the award of preliminary honors are as follows:—

Classics.—I. The candidate must not fall below third grade, and must maintain an average standing of second grade, in the following courses:—I., II., and III. Greek, and in Latin I., VI., and any two of the Courses II.,—V.

2. He must also pass with distinction a special examination, held near the end of the academic year, and designed to test (*a*) his ability to translate Greek and Latin into English at sight, and (*b*) his knowledge of Greek and Latin grammar, and of Greek and Roman antiquities, mythology, and political and literary history.

Mathematics.—1. The candidate must not fall below third grade, and must maintain an average standing of second grade in the required course in mathematics, and in such elective courses, amounting to not less than five hours a week, as may be approved by the head of the department. Courses IV. and V. are recommended.

2. He must pass with distinction a special examination, held near the end of the academic year, which may cover the entire field of his mathematical knowledge.

III. HONORS IN SPECIAL DEPARTMENTS AT GRADUATION.—Two grades of special honor, designated respectively as honors and high honors, are awarded at graduation in each of the following departments:—

Latin; Greek; German; Romance Languages; English; History; Economics and Social Science; Philosophy; Mathematics; Physics; Chemistry; Geology; Biology.

The conditions upon which special honors in these departments are awarded are as follows:—

(1) The candidate must apply to the officer in charge of the department in which he desires to take honors, and to the Secretary of the Faculty, not later than the first Monday of the third term in the Junior year (April 11, 1904).

(2) He must pass at the regular or special examinations in such studies of the college course as are prescribed for honors in the several departments in the schedule given below; and in such studies he must not fall below third grade, and must maintain an average standing of second grade after the beginning of the Sophomore year, or must receive first grade in all of the prescribed studies which he takes after the beginning of the Junior year.

(3) In addition to the studies regularly prescribed in the schedule below, the candidate must pursue such a course of collateral reading or investigation as is prescribed by the officer in charge of the department, with the approval of a committee of the Faculty. The evidence of his proficiency in this collateral course is given by an examination,

oral or written, by a thesis or essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as may be prescribed by the officer of the department, with the approval of a committee of the Faculty. The case of each candidate is decided by the Faculty.

(4) In addition to other requirements, every candidate for special honors is required to pass a *general examination* covering the entire field of his knowledge in the department in which the honor is given. This examination is oral, and is conducted in the presence of a committee of the Faculty.

(5) No student is awarded special honors who fails to pass in any study of the last two years of the course.

(6) No examination for special honors is given, and no thesis or other work in preparation for special honors is received, after the second Saturday preceding Commencement (June 18, 1904).

The conditions upon which high special honors are awarded are the same as for special honors, with the addition of the following requirements:—

The candidate must receive first grade in all of the prescribed studies which he takes after the beginning of the Sophomore year, and his examinations and other tests must show an exceptionally clear and comprehensive understanding of the studies of the department, and give promise of capacity for independent work.

The following schedule gives the studies required of candidates for special honors in the several departments:—

Latin.—1. So many of the courses in Latin as will amount in the aggregate to not less than twenty hours a week.

2. Courses I. and II. in Greek.

[Candidates for special honors in Latin at graduation are requested to announce their candidacy as early as the beginning of the Junior year.]

Greek.—1. Courses I.–VII. in Greek, and not less than four hours in courses approved by the Committee on Special Honors.

2. Course I., and any two of Courses II.–V. in Latin.

German.—1. Courses I.–V., VIII., and IX. or X. in German.

2. Courses I. and II. in French.

3. Course I. in English literature, or Courses IV. and V. in English language.

Romance Languages.—1. Courses I.-VIII. in Romance languages.

2. Courses I. and II. in German.

English.—1. The required courses in English, including composition.

2. One of the following groups of elective courses:—

(a.) Four courses in English literature, and four courses in English language.

(b.) Four courses in English language, one course in English literature, two courses in German.

(c.) Four courses in English literature, one course in English language, four courses in French or German or both.

(d.) Four courses in English literature, four courses in French or German, the course in English history.

(e.) Five courses in English language, five courses in French or German.

History.—1. All the courses in history.

2. The required course, and one elective course, in economics and social science.

Economics and Social Science.—1. All the courses in economics and social science.

2. Course I., and either Course II. or Course III. in history.

Philosophy.—1. All the courses in philosophy.

2. The course in ethics.

3. The course in theism (for candidates in general philosophy) or Course I. in biology (for candidates in psychology).

Mathematics.—1. The required course in mathematics.

2. Elective courses in mathematics and astronomy, amounting in the aggregate to not less than fifteen hours a week.

3. Course I. in physics.

[Prospective candidates for special honors in mathematics at graduation are advised to take Course V. in mathematics in the Sophomore year.]

Physics.—1. Courses I. and II. in physics.

2. Two years of practical physics (in at least one of which there shall be three exercises a week).

3. Not less than three full courses chosen from the following:—V., VI., VII., VIII., IX., XII., XIII. Physics, and XII. Mathematics (V., VI., and VII. Physics being reckoned as half-courses).

4. Course I. and either Course III. or Course X. in chemistry.

5. Course V. in mathematics.

Chemistry.—1. Courses I., II., either III. or X., IV., V., and IX. in chemistry (three exercises a week being required in Courses III. and X.).

2. Course I. in physics, and one year of practical physics; or Course VI. in chemistry, and Courses I. and V. in biology.

Geology.—1. Courses I.–VI. in geology.

2. The elementary course in astronomy.

3. Courses III. and IV. in biology.

4. Not less than two of the following courses:—V., VI., and VII. biology, either III. or X. chemistry, IV. chemistry, and IX. physics.

Biology.—1. Courses I.–IV. in biology.

2. Two years of practical biology (in at least one of which there shall be three exercises a week).

3. Courses I. and IV. in geology.

4. Either Course III. or Course X. in chemistry or Course III. in geology.

[Candidates for special honors in biology are recommended to take at least one summer course in a marine laboratory.]

In all cases in which the foregoing schedule allows option between two or more courses or groups of courses, the student's selection is subject to the approval of the head of the department in which he desires to take honors.

In special cases a candidate for honors may be allowed to substitute other courses for those named in the foregoing schedule, by vote of the Faculty, on recommendation of the head of the department.

An honor of any of the kinds and grades mentioned may be conferred on a student sufficiently meritorious, by vote of the Faculty, even though his record of standing does not completely fulfill the requirements stated above.

The names of those students who take preliminary honors are announced at the public service held in Memorial Chapel on the Monday preceding Commencement (June 27, 1904).

The names of students who take honors at graduation, whether general or special, are printed on the Commencement program.

AWARD OF HONORS, 1902-1903.

HONORS IN GENERAL SCHOLARSHIP.

HIGH HONORS.

JOHN WILLIAM LANGDALE.

ETHEL RAY SAWYER.

HONORS.

IRVING MONROE ANDERSON,
ZIRA PLATT BENNETT,
JEROME HAROLD BENTLEY,
THOMAS PERCIVAL BEYER,
CLARENCE FREDERIC HALE,
GEORGE WILBER HARTWELL,
PERRY SHERMAN HOWE,

GEORGE HAMPTON MCGAW,
WALLACE LEVERITT ROOT,
HERBERT BRONSON SHONK,
ROBINSON SPENCER,
GEORGE FRANKLIN STRONG,
JOHN CHRISTIE WARE,
GEORGE MARVIN WARNER.

MARY ELIZABETH BAGG,

CHARLOTTE GRAHAM GEER.

HONORS IN SPECIAL DEPARTMENTS.

HIGH HONORS.

German.

CARL STEPHEN MUELLER. Schiller's Treatment of Historical Subjects. Thesis: "Schiller's Treatment of the Character of Wallenstein in his Drama, compared with the Wallenstein of History."

Mathematics.

GEORGE WILBER HARTWELL. Differential Equations. Thesis: "On the Singular Points of Systems of Curves Satisfying a Differential Equation of the First Order."

HONORS.

Chemistry.

CLARENCE FREDERIC HALE. The Liquefaction of Gases. Thesis: "A Study of the Hampson Liquefier."

JOHN CHRISTIE WARE. The Liquefaction of Gases. Theses: (a) "The Liquefaction of Gases." (b) "A New Liquefier."

Biology.

FLOYD SWALLOW LEACH. Evolution. Thesis: "The Evolution of Man."

PRELIMINARY HONORS.

Classics.

FRANK CHESTER BECKER,

HENRY ALFRED HOLMES,

EDWIN CHESTER JONES.

DEGREES.

The following degrees are conferred by the University, in course:—

BACHELOR OF ARTS.—This degree is conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Classical Course.

BACHELOR OF PHILOSOPHY.—This degree is conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Latin-Scientific Course.

BACHELOR OF SCIENCE.—This degree is conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Scientific Course.

The baccalaureate degree is awarded *summa cum laude* to a student who takes high honors both in general scholarship and in one or more departments; *magna cum laude*, to a student who takes a high honor either in general scholarship or in one or more departments; *cum laude*, to a student who takes an honor either in general scholarship or in one or more departments.

MASTER OF ARTS AND MASTER OF SCIENCE.—The degrees of Master of Arts and Master of Science are conferred in accordance with the following regulations:—

1. The degree of Master of Arts is conferred upon Bachelors of Arts of Wesleyan University, of at least one year's standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued in residence for a period of not less than one year. This course of study is under the full direction of a Committee of the Faculty on Graduate Instruction, composed of three permanent members with the addition of the instructor in charge of each department in which the candidate pursues work. Evidence of the candidate's proficiency in the approved studies is given by an examination, oral or written, by a thesis or an essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as the committee may prescribe. All such tests

of proficiency are under the direction of the committee, and they report to the Faculty proper candidates for the degree.

2. In the case of Bachelors of Arts of other colleges whose course of study is accepted as sufficient by the Committee on Graduate Instruction, or who pass such additional examinations as the committee prescribes, the degree of Master of Arts is conferred on the conditions prescribed in the case of Bachelors of Arts of Wesleyan University pursuing a course of study in residence.

3. The degree of Master of Arts is also conferred upon Bachelors of Arts of Wesleyan University, of at least three years' standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued *in absentia*, and equivalent in amount to that prescribed in the case of resident graduate students; and in all other particulars the same regulations hold in the case of non-resident as in the case of resident students. The degree is also conferred upon Bachelors of Arts of Wesleyan University, of two years' standing, at the satisfactory conclusion of a course of study pursued *in absentia*, on the conditions above specified, provided that the candidate has spent the two years in resident study in a non-professional department of some other university.

4. The degree of Master of Science is conferred upon Bachelors of Philosophy and Bachelors of Science, whether of this or of other colleges, under the same conditions which govern in the case of the degree of Master of Arts.

5. Bachelors of Philosophy and Bachelors of Science, whether of this or of other colleges, who pass such examinations in Greek and Latin, and in other literary studies, as the Committee on Graduate Instruction prescribes, are admitted to the degree of Master of Arts on the conditions prescribed in the case of Bachelors of Arts.

6. A fee of ten dollars is required from each graduate student upon promotion to the Master's degree.

Communications from prospective graduate students regarding the Master's degree should be addressed, in the first instance, to Professor E. T. Merrill, the secretary of the Committee on Graduate Instruction.

DEGREES CONFERRED, JULY, 1903.

DEGREES IN COURSE.

The Degree of Bachelor of Arts was Conferred on

ARDON TAYLOR ADAMS,	HERBERT VAN DEVANTER LACEY,
IRVING MONROE ANDERSON,	JOHN WILLIAM LANGDALE,
OLAF JOHN ANDERSON,	RALPH CLINTON LATHROP,
JAMES GUY BAGG,	FLOYD SWALLOW LEACH,
FRANK MILTON BAKER,	HARRY WILBER LITTLE,
CHARLES PRESCOTT BARKER,	ARCHIBALD CAMPBELL MCKILLOP,
ZIBA PLATT BENNETT,	WILLIAM EDWARD HULBERT MATHISON,
JEROME HAROLD BENTLEY,	RALPH NORTON,
WALTER CREIGHTON BROWN,	FLETCHER HURST PARSONS,
OTTO ASBURY BUSHNELL,	HERBERT BRONSON SHONK,
OLIN MASON CAWARD,	HARRY HUNTINGTON SMITH,
CLARENCE FLETCHER CORNER,	ROBINSON SPENCER,
HARRY PIERSON DAY,	GEORGE FRANKLIN STRONG,
RIDGWAY BOWERS ESPY,	FRANK VANHAAG STUTSMAN,
PERRY SHERMAN HOWE,	JAMES ROGERS VEITCH,
ARTHUR GRANT HUME,	WILLIAM HOYT WEBER,
	MYRON JOHN WILLSON.

MARY ELIZABETH BAGG,	FAITH ELEANOR HILLS.
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The Degree of Bachelor of Philosophy was Conferred on

GEORGE THURSTON AMES,	WILLIAM STILLWELL JACKSON,
JAMES HERBERT BAKER,	ROBERT RATHBUN LEWIS,
ROBERT ALLEN BARTLETT,	CARL STEPHEN MUELLER,
JAMES GARFIELD BERRIEN,	JESSE LYNDON PARKER,
WILLIAM PRESTON BRAY,	MARTIN PRUCHA,
JAMES NATHANIEL CARTER,	WALLACE LEVERITT ROOT,
ARTHUR WILLIAM CHAPMAN,	JOHN CHRISTIE WARE,
GEORGE WILBER HARTWELL,	GEORGE MARVIN WARNER.
ZELIA ALMIRA CUTLER,	VIVIAN ELAINE GLADWIN,
CHARLOTTE GRAHAM GEER,	MINNIE CLARA RIGBY,
	ETHEL RAY SAWYER.

The Degree of Bachelor of Science was Conferred on

THOMAS PERCIVAL BEYER,	IRA CHAPMAN DOANE,
LEVERETT DALE BRISTOL,	ALFRED AUGUSTINE GUSTAFSON,
WILLIAM PATTERSON CALDER,	CLARENCE FREDERIC HALE,
HOWARD DICKINSON CRANE,	MAX FRANKLYN HOWLAND,
MILTON WEBSTER DAVENPORT,	GEORGE HAMPTON MCGAW,
	LUCIUS LOREN PALMER.

***The Degree of Master of Arts on Examination was Conferred on**

WALTER FENNO DEARBORN, B. A., 1900. Subject: Philosophy.
Thesis: "The Theory of the Local Signs of the Retina."

The Degree of Master of Science on Examination was Conferred on

GEORGE ROWLAND MUNROE, PH. B., 1893. Subject: English Literature. Thesis: "Shakespeare's Indebtedness to North's Plutarch in Julius Cæsar."

HERBERT COOPER WARD, PH. B., 1901. Subjects: Biology and Philosophy. Thesis: "A Study of the so-called Germicidal Property of Milk."

HONORARY DEGREES.**The Degree of Doctor of Divinity was Conferred on**

WILLIAM HENRY HUNTINGTON, Acting President of Boston University.

HENRY ANSON BUTTS, President of Drew Theological Seminary.

JOHN BINNEY, Dean of Berkeley Divinity School.

FRANK KNIGHT SANDERS, Dean of the Divinity School, Yale University.

WILLIAM FRASER MCDOWELL, Secretary of the Board of Education of the Methodist Episcopal Church.

EUGENE RUSSELL HENDRIX, Bishop of the Methodist Episcopal Church, South.

CHAUNCEY BUNCE BREWSTER, Bishop of the Diocese of Connecticut of the Protestant Episcopal Church.

* April 18, 1902, the Board of Trustees voted to confer the degree of Master of Arts on examination on Pedro Ramon Gillot, B. A., 1892, whose subject was Latin. The degree was conferred by diploma.

The Degree of Doctor of Laws was Conferred on

HENRY CRUISE MURPHY INGRAHAM, of Brooklyn, N. Y.

DAVID ALLISON, President of the University of Mt. Allison College,
New Brunswick.

JAMES WHITFORD BASHFORD, President of Ohio Wesleyan Uni-
versity.

WILLIAM JEWETT TUCKER, President of Dartmouth College.

HENRY VAN DYKE, Professor of English Literature, Princeton Uni-
versity.

WILLIAM HENRY BREWER, Professor of Agriculture, Sheffield
Scientific School, Yale University.

RICHARD WATSON GILDER, Editor of *The Century Magazine*.

JOHN LEWIS BATES, Governor of the Commonwealth of Massachu-
setts.

LESLIE MORTIER SHAW, Secretary of the Treasury of the United
States.

ABIRAM CHAMBERLAIN, Governor of the State of Connecticut.



PUBLICATIONS.

ALUMNI RECORD.—Through the liberality of Orange Judd, M. A., a Biographical Record of the Alumni of the University was published in 1869. A third edition of this Record, revised and corrected, was issued in June, 1883. This edition contains not only the record of alumni, revised and corrected to the date of publication, but also a list of all former students not graduates, with their residences, and such other information with reference to them as the most thorough search could obtain. It also includes a bibliographical record, showing all the more important literary and scientific work done by alumni and members of the Faculty. Copies of this edition may be had on application to the librarian, W. J. James. The price of the Record, postage paid, is one dollar.

A sixth edition of the Supplement to the Alumni Record, was published in December, 1903. It contains an alphabetical list of the living graduates, with their honorary and professional degrees, their occupations, their addresses, and their geographical distribution; also a list of honorary alumni, with their addresses, if living, or date of death, if deceased. This edition also contains as full information as can be obtained concerning the non-graduates.

Information in regard to changes of address of alumni or non-graduates, or in regard to any other facts suitable for future editions of the Record, is earnestly solicited. All who can furnish such information are requested to communicate with Professor F. W. Nicolson, Secretary of the Faculty.

BULLETIN.—The *Bulletin* was first issued in 1888, and has since been published twice a year (usually in May and November), under the direction of a committee of the Faculty. It contains accounts of trustee and alumni meetings, lists of recent gifts, statements of the most urgent needs of the University, changes in the Faculty and courses of study, department notes, and various other matters of interest to the alumni and friends of the institution. It is sent to the trustees and alumni, and may be obtained by other friends of the University upon application to the Secretary of the Faculty.

NECROLOGY.—A list of deceased graduates of the University is published annually in the Spring *Bulletin*. All persons who can supply information for future lists are urgently requested to communicate the same to Professor F. W. Nicolson, Secretary of the Faculty.

EMPLOYMENT BUREAU.

An employment bureau is maintained in the office of the Secretary of the Faculty, for the purpose of securing positions as teachers for graduates of the college, and to provide opportunities for undergraduates to earn money towards paying their college expenses, either by work in Middletown during term time, or by work in Middletown or elsewhere during the summer vacation. Those who wish to avail themselves of the opportunity thus offered are invited to register; and the alumni and friends of the college are urgently requested to inform the Secretary of any vacancy coming to their notice which might be filled by a Wesleyan student or graduate. No fees are charged.



CALENDAR.



1903.

- Oct. 1, Thursday—First term began.
 Nov. 25-29, Thanksgiving recess.
 Dec. 23, Wednesday—First term will close.

1904.

CHRISTMAS RECESS.

- Jan. 5, Tuesday—Second term will begin.
 Jan. 28, Thursday—Day of prayer for colleges—a holiday.
 Feb. 6-19, Mid-year examinations.
 Feb. 22, Monday—Washington's Birthday—a holiday.
 Mar. 30, Wednesday—Second term will close.

SPRING RECESS.

- April 5, Tuesday—Third term will begin.
 April 9, Saturday—Last day for presenting Junior Exhibition essays.
 April 11, Monday—Last day for presenting Olin Prize essays.
 April 11, Monday—Last day for presenting applications for preliminary and special honors.
 April 11, Monday—Last day for presenting applications for special spring examinations.
 April 21, Thursday—Junior Exhibition.
 May 16, Monday—Last day for presenting Joseph D. Weeks Prize essays.
 May 31, Monday—Memorial Day—a holiday.
 June 2, Thursday—Prize Debate.
 June 6, Monday—Senior examinations will begin.
 June 13, Monday—Annual examinations will begin.
 June 18, Saturday—Last day for presenting special honor theses, and for special honor examinations.
 June 18, Saturday,—Last day for presenting Master's theses, and for examinations for the Master's degree.
 June 21, Tuesday—Last day for presenting Rich Prize essays.
 June 24, Friday—Prize declamations.

1904.

- June 26, Sunday morning—Baccalaureate sermon.
June 26, Sunday evening—University sermon.
June 27, Monday morning—Announcement of award of prizes and of preliminary honors.
June 27, Monday afternoon—Class Day.
June 27, Monday evening—Meeting of the Board of Trustees.
June 28, Tuesday morning—Business meeting of the Phi Beta Kappa Society.
June 28, Tuesday morning—Business meeting of the Alumni Association.
June 28, Tuesday afternoon—Reunion of classes of 1854, '79, '89, '94, '97, 1901.
June 28, Tuesday afternoon—Social receptions by the college fraternities.
June 29, Wednesday—COMMENCEMENT.
June 30, Thursday—Examination of candidates for admission will begin.

VACATION OF THIRTEEN WEEKS.

- Sept. 27, Tuesday—Special examinations for students deficient at the annual examinations.
Sept. 28, Wednesday—Examination of candidates for admission will begin.
Sept. 29, Thursday—First term will begin.



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JANUARY	MAY	SEPTEMBER	JANUARY
S - 3 10 17 24 31	S 1 8 15 22 29	S - 4 11 18 25	S 1 8 15 22 29
M - 4 11 18 25	M 2 9 16 23 30	M - 5 12 19 26	M 2 9 16 23 30
T - 5 12 19 26 X	T 3 10 17 24 31	T - 6 13 20 27	T 3 10 17 24 31
W - 6 13 20 27 X	W 4 11 18 25 X	W - 7 14 21 28	W 4 11 18 25 X
T - 7 14 21 28 X	T 5 12 19 26 X	T 1 8 15 22 29	T 5 12 19 26 X
F 18 15 22 29 X	F 6 13 20 27 X	F 2 9 16 23 30	F 6 13 20 27 X
S 29 16 23 30 X	S 7 14 21 28 X	S 3 10 17 24 X	S 7 14 21 28 X
FEBRUARY	JUNE	OCTOBER	FEBRUARY
S - 7 14 21 28	S - 5 12 19 26	S - 2 9 16 23 30	S - 5 12 19 26
M 1 8 15 22 29	M - 6 13 20 27	M - 3 10 17 24 31	M - 6 13 20 27
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† Francis Lambert Thornberry,	<i>Bridgeport.</i>	<i>B. O. II. House.</i>
Edward Ross Tracy,	<i>Syracuse, N. Y.</i>	<i>5 Foss House.</i>
§ Clarence Howard Tryon,	<i>Meriden.</i>	<i>B. O. II. House.</i>
Burr de Forest Vail,	<i>Montdale, Pa.</i>	<i>250 High St.</i>
† Henderson Edmund Van Surdam,	<i>Hoosick Falls, N. Y.</i>	<i>Δ. K. E. House.</i>
Thomas Alexander West,	<i>Saco, Me.</i>	<i>Δ. T. Δ. House.</i>
† Howard Leighton Winslow,	<i>Woodford's, Me.</i>	<i>11 College Place.</i>
James Maxon Yard,	<i>Farmingdale, N. J.</i>	<i>Y. Y. House.</i>
§ Ruth Burr Bonfoey,	<i>Middletown.</i>	<i>181 Court St.</i>
§ Ruth Dean,	<i>Middletown.</i>	<i>Newfield St.</i>
† Maude Stuart Newell,	<i>Middletown.</i>	<i>61 South Main St.</i>
§ Sarah Agnes Scudder,	<i>Washington, D. C.</i>	<i>274 High St.</i>
Clara Frances Sykes,	<i>Whitinsville, Mass.</i>	<i>274 High St.</i>

JUNIOR CLASS.

NAMES.	RESIDENCES.	ROOMS.
† Henry Dana Abbott,	<i>New Haven.</i>	Δ. K. E. House.
Arthur Ray Anderson,	<i>Mt. Vernon, N. Y.</i>	Ψ. Y. House.
§ Harold De Forest Arnold,	<i>Central Village.</i>	11 College Place.
§ Charles Woodard Atwater,	<i>Middletown.</i>	246 High St.
§ Russell Bailey,	<i>Bound Brook, N. J.</i>	Δ. T. Δ. House.
§ Wilbur Stone Beeman,	<i>West Brookfield, Mass.</i>	11 College Place.
William Ebenezer Bell,	<i>Hamilton, Bermuda.</i>	297 College St.
Earl Maltby Benson,	<i>West Winfield, N. Y.</i>	B. Θ. Π. House.
§ George Imlay Bodine, Jr.,	<i>Philadelphia, Pa.</i>	Ψ. Y. House.
† Raymond Wolcott Bristol,	<i>Washington, D. C.</i>	A. Δ. Φ. House.
§ James Edward Butler,	<i>Sackett's Harbor, N. Y.</i>	Chafee House.
Samuel Curtis Campaigne,	<i>Troy, N. Y.</i>	246 High St.
Theron Alvord Clements,	<i>Cazenovia, N. Y.</i>	Ψ. Y. House.
Jesse Vancleft Cooper,	<i>Union, N. Y.</i>	B. Θ. Π. House.
† Minn S Cornell, Jr.,	<i>Brooklyn, N. Y.</i>	250 High St.
§ Arthur Kent Dearborn,	<i>Middletown.</i>	246 High St.
Lester Francis Deming,	<i>Berlin.</i>	Δ. T. Δ. House.
§ Ward Percy Gammons,	<i>Methuen, Mass.</i>	B. Θ. Π. House.
§ Gordon Gray Gatch,	<i>Washington, D. C.</i>	246 High St.
† Manuel Henry Gonsalves,	<i>Acushnet, Mass.</i>	297 College St.
§ Robert Gray Goodman,	<i>Montclair, N. J.</i>	246 High St.
§ George Henry Hamilton,	<i>West Brattleboro, Vt.</i>	11 College Place.
Clarence Eugene Hancock,	<i>Syracuse, N. Y.</i>	A. Δ. Φ. House.
Warren Lucius Harlow,	<i>Worcester, Mass.</i>	B. Θ. Π. House.
George Edwin Heath,	<i>Everett, Mass.</i>	Δ. T. Δ. House.
§ Ira Prouty Ingraham,	<i>Guilford Centre, Vt.</i>	15 Foss House.
Benjamin Murley Johns,	<i>Shickshinny, Pa.</i>	72 Church St.
§ William Armour Johnston, Jr.,	<i>Prince's Bay, N. Y.</i>	A. Δ. Φ. House.
† Laurence Free McDonald,	<i>Parkton, Md.</i>	58 N. C.
Albert Mann, Jr.,	<i>Washington, D. C.</i>	Ψ. Y. House.
Ellis Hoagland Martin,	<i>Port Jervis, N. Y.</i>	246 High St.
† Harold Clifton Martin,	<i>Amherst, Mass.</i>	Δ. K. E. House.
† Arthur James Monroe,	<i>Brattleboro, Vt.</i>	Δ. T. Δ. House.
William Gordon Murphy, Jr.,	<i>Brooklyn, N. Y.</i>	Δ. K. E. House.

NAMES.	RESIDENCES.	ROOMS.
Charles Weatherwax Nethaway,	<i>Middletown.</i>	<i>35 Park Place.</i>
† Oliver Taylor Noon,	<i>Everett, Mass.</i>	<i>317 William St.</i>
§ Arthur Elliott Paterson,	<i>Middletown.</i>	<i>110 Main St.</i>
Newton Manley Perrins,	<i>Seymour.</i>	<i>11 College Place.</i>
William Northcote Phillips,	<i>Frederick, Md.</i>	<i>Ψ. Y. House.</i>
† Charles Frank Phipps,	<i>Milton, Mass.</i>	<i>246 High St.</i>
Henry Boardman Powell, Jr.,	<i>Clearfield, Pa.</i>	<i>A. Δ. Φ. House.</i>
Frank Eggleston Robbins,	<i>Westfield, Mass.</i>	<i>B. Θ. Π. House.</i>
† Joshua Lester Robins,	<i>Sand Lake, N. Y.</i>	<i>Δ. T. Δ. House.</i>
Guy Wright Rogers,	<i>Forks ville, Pa.</i>	<i>Ψ. Y. House.</i>
§ Dwight Milton Sawyer,	<i>Glens Falls, N. Y.</i>	<i>Δ. T. Δ. House.</i>
Jesse Ernest Shaw,	<i>East Longmeadow, Mass.</i>	<i>28 N. C.</i>
George Wiley Sherburn,	<i>St. Johnsbury, Vt.</i>	<i>Ψ. Y. House.</i>
† Reginald Heber Stow,	<i>Cromwell.</i>	<i>Ψ. Y. House.</i>
† Ferdinand Richard Streber,	<i>Honduras, C. A.</i>	<i>A. Δ. Φ. House.</i>
Frank Harold Syrett,	<i>Montclair, N. J.</i>	<i>246 High St.</i>
James Martin Talbot,	<i>Newark, N. J.</i>	<i>246 High St.</i>
† Elwood Idell Terry,	<i>Claverack, N. Y.</i>	<i>58 N. C.</i>
Charles Mabbett Travis,	<i>Brooklyn, N. Y.</i>	<i>Δ. K. E. House.</i>
George Wood Vinal,	<i>Washington, D. C.</i>	<i>Δ. K. E. House.</i>
Frederick Franklin Voorhees,	<i>Farmingdale, N. J.</i>	<i>59 N. C.</i>
† Clifford Le Grande Waite,	<i>Middletown.</i>	<i>15 Crescent St.</i>
† James William Weld,	<i>Saranac Lake, N. Y.</i>	<i>11 College Place.</i>
† Ernest Burr Wheeler,	<i>New Britain.</i>	<i>Δ. T. Δ. House.</i>
§ James Augustus Wilson,	<i>Calhoun, Ala.</i>	<i>7 Foss House.</i>
Frederick Warren Wright,	<i>Mansfield, Ohio.</i>	<i>246 High St.</i>
§ Alice Gertrude Cooke,	<i>Middletown.</i>	<i>43 Park Place.</i>
Margaret Elizabeth Donahoe,	<i>Middletown.</i>	<i>350 Washington St.</i>
§ Helen Katherine Fletcher,	<i>Middletown.</i>	<i>94½ Court St.</i>
Faye Mildred Keene,	<i>Waldoboro, Me.</i>	<i>274 High St.</i>
§ Jessie Louise Keene,	<i>Waldoboro, Me.</i>	<i>274 High St.</i>
§ Clara Ella Lang,	<i>Providence, R. I.</i>	<i>274 High St.</i>
§ Katherine Frances Lucey,	<i>Middletown.</i>	<i>10 Park St.</i>
§ Edith Weekes Say,	<i>Waterbury.</i>	<i>256 William St.</i>
§ Anna Madeline Vanderbrouk,	<i>Middletown.</i>	<i>494 Main St.</i>
§ Elizabeth Matilda Veazey,	<i>Middletown.</i>	<i>72 Pine St.</i>
§ Ella Pardee Warner,	<i>Highwood.</i>	<i>274 High St.</i>
§ Florence Winter,	<i>Middlefield.</i>	<i>274 High St.</i>

SOPHOMORE CLASS.

NAMES.	RESIDENCES.	ROOMS.
Benjamin Pettengill Adams,	<i>Rochester, N. Y.</i>	<i>246 High St.</i>
Harold Douglass Allen,	<i>Tolland.</i>	<i>246 High St.</i>
Ray Rood Allen,	<i>West Nanticoke, Pa.</i>	<i>246 High St.</i>
§ Hiland Garfield Batcheller,	<i>Fort Edward, N. Y.</i>	<i>38 N. C.</i>
§ Joseph Clair Beebe,	<i>Meriden.</i>	<i>250 High St.</i>
† Adolph Burnett Benson,	<i>Berlin.</i>	<i>Berlin.</i>
Russell Forrest Bower,	<i>Cincinnati, O.</i>	<i>250 High St.</i>
Ernest Lyman Bragg,	<i>Hudson, N. H.</i>	<i>B. Ø. II. House.</i>
† Walter Henry Brown,	<i>Brooklyn, N. Y.</i>	<i>Y. Y. House.</i>
† Sanford Wendell Carhart,	<i>Albany, N. Y.</i>	<i>X. Y. Lodge.</i>
§ Ralph Snow Carpenter,	<i>Milton, Mass.</i>	<i>B. Ø. II. House.</i>
Herbert Clayton Chamberlain,	<i>New York, N. Y.</i>	<i>250 High St.</i>
§ Joseph Wardell Chasey,	<i>N. Long Branch, N. J.</i>	<i>59 N. C.</i>
† Carl Willis Clark,	<i>Westville Center, N. Y.</i>	<i>Δ. K. E. House.</i>
Harold Deming Clark,	<i>East Haven.</i>	<i>Δ. K. E. House.</i>
† John Scarlett Clarke,	<i>W. Orange, N. J.</i>	<i>58 Wyllys Ave.</i>
† Ralph Martin Cole,	<i>Tottenville, N. Y.</i>	<i>A. Δ. Φ. House.</i>
† Edward Fratus Congdon,	<i>New Haven.</i>	<i>20 N. C.</i>
Howard Albert Corey,	<i>Farmington, Me.</i>	<i>28 N. C.</i>
† Charles George Crane,	<i>Newark, N. J.</i>	<i>250 High St.</i>
Benjamin Franklin Dickisson,	<i>East Stroudsburg, Pa.</i>	<i>25 N. C.</i>
† Leonard Seaman Downey,	<i>Flushing, N. Y.</i>	<i>Δ. K. E. House.</i>
† William Guy Fellows,	<i>Oneonta, N. Y.</i>	<i>30 N. C.</i>
Edwin Anderson Field,	<i>Stamford.</i>	<i>62 N. C.</i>
§ Raymond Lalor Forman,	<i>Trenton, N. J.</i>	<i>56 N. C.</i>
§ Thomas Baker Gibb,	<i>Philadelphia, Pa.</i>	<i>Δ. T. Δ. House.</i>
Harry Miles Gordy,	<i>Salisbury, Md.</i>	<i>41 N. C.</i>
§ Arthur Benjamin Haley,	<i>Portland, Me.</i>	<i>B. Ø. II. House.</i>
Joseph Willis Hawley,	<i>Dorrancton, Pa.</i>	<i>B. Ø. II. House.</i>
Arthur Percy Hickcox,	<i>Watertown.</i>	<i>Δ. K. E. House.</i>
Harold McIlveen Horton,	<i>East Greenwich, R. I.</i>	<i>246 High St.</i>
Herbert Nagle Howard,	<i>Middletown.</i>	<i>Δ. T. Δ. House.</i>
§ George Henry Ingraham,	<i>Guilford Center, Vt.</i>	<i>15 Foss House.</i>
§ Edward Allen Jennings,	<i>New York, N. Y.</i>	<i>57 N. C.</i>

NAMES.	RESIDENCES.	ROOMS.
Harry Wellington Laidler,	<i>Brooklyn, N. Y.</i>	<i>35 Park Place.</i>
§ Adelbert Llewellyn Leathers,	<i>Orrington, Me.</i>	<i>Gymnasium.</i>
Earle Leslie Legg,	<i>Roslindale, Mass.</i>	<i>48 N. C.</i>
† William Henry Long,	<i>Sayville, N. Y.</i>	<i>361 High St.</i>
Clarence Paul McClelland,	<i>Dobbs Ferry, N. Y.</i>	<i>56 N. C.</i>
Olin Foss McCormick,	<i>Hartford.</i>	<i>38 N. C.</i>
Henry Trumbower MacLean,	<i>Hackettstown, N. J.</i>	<i>63 N. C.</i>
§ Floyd Josiah Miller,	<i>Oneonta, N. Y.</i>	<i>30 N. C.</i>
† George Lewis Mylchreest,	<i>Middletown.</i>	<i>9 Brainerd Ave.</i>
† Walter Charles North,	<i>Syracuse, N. Y.</i>	<i>Ψ. Y. House.</i>
Joseph Walter Northrop, Jr.,	<i>Bridgeport.</i>	<i>Δ. T. Δ. House.</i>
Walter Patten,	<i>Providence, R. I.</i>	<i>56 N. C.</i>
† William Harold Peterson,	<i>Pine Bush, N. Y.</i>	<i>317 William St.</i>
Earle Linus Rich,	<i>Cattaraugus, N. Y.</i>	<i>Ψ. Y. House.</i>
§ Charles Robert Sawyer,	<i>Glens Falls, N. Y.</i>	<i>Δ. T. Δ. House.</i>
Howard Arnold Seckerson,	<i>Brooklyn, N. Y.</i>	<i>246 High St.</i>
§ Arthur Seybolt,	<i>Oneonta, N. Y.</i>	<i>X. Ψ. Lodge.</i>
Rosevelt Rensselaer Sherwood,	<i>Albany, N. Y.</i>	<i>41 N. C.</i>
John Davis Smith,	<i>Canton Center.</i>	<i>305 William St.</i>
Young Chalmers Smith,	<i>Middlebury, Vt.</i>	<i>Δ. K. E. House.</i>
§ Edgar Storms, Jr.,	<i>Scarborough-on-Hudson, N. Y.</i>	<i>X. Ψ. Lodge.</i>
§ Lorenzo Collington Streeter,	<i>Troy, N. Y.</i>	<i>X. Ψ. Lodge.</i>
Jesse Merrill Tebbetts,	<i>Lower Cabot, Vt.</i>	<i>301 College St.</i>
§ Harry Phillips Trevithick,	<i>Middletown.</i>	<i>243 College St.</i>
Frank Adolph Vansciver,	<i>Philadelphia, Pa.</i>	<i>Gymnasium.</i>
Bayard Howard Veazey,	<i>Middletown.</i>	<i>72 Pine St.</i>
§ Lester Reuben Weeks,	<i>Syracuse, N. Y.</i>	<i>A. Δ. Φ. House.</i>
Daniel Wilkins,	<i>Belchertown, Mass.</i>	<i>246 High St.</i>
§ Addison Wetherald Williamson,	<i>Waterport, N. Y.</i>	<i>29 N. C.</i>
† Daniel Woodhead,	<i>Dorchester, Mass.</i>	<i>B. Θ. Π. House.</i>
§ Alice Mabel Bock,	<i>Meriden.</i>	<i>274 High St.</i>
§ Elizabeth Pauline Bransfield,	<i>Portland.</i>	<i>274 High St.</i>
† Elizabeth Dunham Clark,	<i>Meriden.</i>	<i>274 High St.</i>
§ Marguerite Genevieve Lawton,	<i>Middletown.</i>	<i>146 Broad St.</i>
Frances Teresa Nejako,	<i>Middletown.</i>	<i>71 William St.</i>
§ Althea Elnora Russell,	<i>Oakham, Mass.</i>	<i>199 South Main St.</i>
† Mima Bailey Turner,	<i>Middletown.</i>	<i>56 Durham Ave.</i>
Marietta Josephine Wetterau,	<i>Hazleton, Pa.</i>	<i>274 High St.</i>

FRESHMAN CLASS.

NAMES.	RESIDENCES.	ROOMS.
George Linwood Adams,	<i>Dighton, Mass.</i>	4 N. C.
§ Lewis Allen, Jr.,	<i>Meriden.</i>	X. ♀. Lodge.
† Albert Ansel Anderson,	<i>Clinton.</i>	42 N. C.
§ Kenneth Noël Atkins,	<i>Middletown.</i>	37 South Main St.
† Wesley Converse Atkins,	<i>Cabot, Vt.</i>	301 College St.
§ George Warren Bachman,	<i>Wilkes-Barre, Pa.</i>	40 N. C.
† Winthrop Carl Bailey,	<i>Hudson, Mass.</i>	17 N. C.
† Frisbie Jay Bates,	<i>Stamford.</i>	52 Church St.
† Ernest Hall Buell,	<i>Terryville.</i>	36 N. C.
Edgar Adamson Butters,	<i>Brookline, Mass.</i>	64 N. C.
† Clarence Emory Carter,	<i>Chagrin Falls, O.</i>	10 S. C.
Charles Albert Cederberg,	<i>Hartford, 835 Broad St., Hartford.</i>	
Orliff Van Heik Chase,	<i>Catskill, N. Y.</i>	52 N. C.
George Forrest Chichester,	<i>Patchogue, N. Y.</i>	51 N. C.
Charles Fremont Cleaveland, Jr.,	<i>Windsor Locks.</i>	9 Foss House.
§ Harold Joel Conn,	<i>Middletown.</i>	167 High St.
Clifford Olin Corwin,	<i>Mount Vernon, N. Y.</i>	X. ♀. Lodge.
† George Bliss Crafts,	<i>Milton, Mass.</i>	14 N. C.
† Frederick North Crawford,	<i>Middletown.</i>	34 N. C.
Leon Hilliard Curtice,	<i>New Rochelle, N. Y.</i>	313 William St.
Raymond Scofield Curtice,	<i>New Rochelle, N. Y.</i>	313 William St.
George Martin Davis,	<i>Middletown.</i>	276 College St.
† Lawrence Alexander Davis,	<i>Mount Vernon, N. Y.</i>	37 N. C.
§ John Crane Day,	<i>Morristown, N. J.</i>	43 N. C.
§ Walter Everett Doe,	<i>Exeter, N. H.</i>	8 S. C.
§ Gordon Clark Douglass,	<i>Auburndale, Mass.</i>	44 N. C.
§ Harry Aytoun Dresser,	<i>Spencer, N. Y.</i>	61 N. C.
Russell Goodier Dunmore,	<i>Utica, N. Y.</i>	55 N. C.
§ Charles Babcock Earle,	<i>Meriden.</i>	7 Foss House.
Charles Franklin Edsall,	<i>Newark, N. J.</i>	19 N. C.
† Robert Ephraim Finley,	<i>Amherst Head, N. S.</i>	8 S. C.
Floyd William Foster,	<i>Thomaston.</i>	9 S. C.
Andrew Earle Garde,	<i>Cromwell.</i>	4 S. C.

NAMES.	RESIDENCES.	ROOMS.
† Owen Stephen Gerard,	<i>Meriden.</i>	<i>178 Church St.</i>
§ Donald Monroe Gilbert,	<i>Cincinnati, O.</i>	<i>27 N. C.</i>
† Willard Harvey Gildersleeve,	<i>Gildersleeve.</i>	<i>Gildersleeve.</i>
Philip Lombard Given,	<i>Newark, N. J.</i>	<i>33 N. C.</i>
† Harold Clark Grant,	<i>Meriden.</i>	<i>40 N. C.</i>
Charles Edward Graves,	<i>Hatfield, Mass.</i>	<i>14 Foss House.</i>
Edward Bivens Gray,	<i>Port Murray, N. J.</i>	<i>43 N. C.</i>
† John Stevenson Green,	<i>Pen Argyl, Pa.</i>	<i>11 College Place.</i>
§ Willard Bradley Hard,	<i>Cobleskill, N. Y.</i>	<i>X. Y. Lodge.</i>
§ Paul Miller Held,	<i>Akron, O.</i>	<i>301 College St.</i>
† Walter Raymond Hick,	<i>Portland.</i>	<i>Portland.</i>
† George Sylvester Hull,	<i>Clinton.</i>	<i>42 N. C.</i>
§ Ernest Alexander Inglis,	<i>Middletown.</i>	<i>236 William St.</i>
Franklin James Kennedy, Jr.,	<i>Hornellsville, N. Y.</i>	<i>29 N. C.</i>
June Everett Kilpatrick,	<i>Carbondale, Pa.</i>	<i>31 N. C.</i>
§ Austin Millis Leavens,	<i>Troy, N. Y.</i>	<i>317 William St.</i>
† Chester William Le Cluse,	<i>Sayville, N. Y.</i>	<i>18 N. C.</i>
Walter Ricketson Mitchell,	<i>New Bedford, Mass.</i>	<i>45 N. C.</i>
§ Samuel Booth Moore, Jr.,	<i>Brooklyn, N. Y.</i>	<i>37 N. C.</i>
§ Clarence Augustus Munson,	<i>Amityville, N. Y.</i>	<i>63 N. C.</i>
Raymond Silas Munson,	<i>Windham, N. Y.</i>	<i>52 N. C.</i>
John Ephraim Deyoe Naughtright, Jr.,	<i>Naughtright, N. J.</i>	<i>286 Wm. St.</i>
† Arthur Buckbee Nicholls,	<i>Bridgeport.</i>	<i>14 N. C.</i>
§ Lansing David Odell,	<i>Akron, O.</i>	<i>301 College St.</i>
Herbert Parsons Patterson,	<i>Mystic.</i>	<i>9 Foss House.</i>
† Frank Oakman Patton,	<i>Palmer, Mass.</i>	<i>B. O. P. House.</i>
§ John Stewart Pearce,	<i>Harrisburg, Pa.</i>	<i>46 N. C.</i>
§ S Linn Phillips,	<i>Pittsburg, Pa.</i>	<i>46 N. C.</i>
§ William Robinson Pillsbury,	<i>Waban, Mass.</i>	<i>34 N. C.</i>
Arthur Gerald Hubert Power,	<i>Chicago, Ill.</i>	<i>9 S. C.</i>
§ Augustus Glover Purvis,	<i>Charleston, S. C.</i>	<i>1 Foss House.</i>
† Roscoe Hiram Remick,	<i>New Sharon, Me.</i>	<i>10 S. C.</i>
† Robert Waterman Rice,	<i>Boston, Mass.</i>	<i>64 N. C.</i>
§ Frank Warren Roberts,	<i>Brattleboro, Vt.</i>	<i>4 N. C.</i>
§ Harold Gale Rogers,	<i>Meriden.</i>	<i>40 N. C.</i>
† Robert Clark Russell,	<i>Kents Hill, Me.</i>	<i>53 N. C.</i>
§ Leonard Osborne Ryan,	<i>Middletown.</i>	<i>241 Court St.</i>
Truman Bartlett Sage,	<i>East Haven.</i>	<i>31 N. C.</i>

NAMES.	RESIDENCES.	ROOMS.
† Leonard James Selden,	<i>Haddam Neck.</i>	53 N. C.
† Frederick Elisha Shapleigh,	<i>East Rochester, N. H. 13 Foss House.</i>	
§ Robert Leroy Simpson,	<i>Northport, N. Y.</i>	1 S. C.
§ Frederick Polhemus Smith,	<i>Scranton, Pa.</i>	19 N. C.
Lewis Knapp Smith,	<i>Fort Salonga, N. Y.</i>	1 S. C.
† Frank Kerswill Snyder,	<i>Brooklyn, N. Y.</i>	44 N. C.
Frederic Howard Stewart,	<i>Roslindale, Mass.</i>	18 N. C.
† Thomas Jarvis Taylor,	<i>New Haven.</i>	1 Foss House.
James Simpson Thomas,	<i>Baltimore, Md.</i>	1 Foss House.
George Benjamin Tompkins,	<i>Spencer, N. Y.</i>	61 N. C.
John Barwis Vanhorn,	<i>Springfield, Mass.</i>	27 N. C.
§ Arthur Millard Weeks,	<i>Patchogue, N. Y.</i>	51 N. C.
Randolph Dykeman West,	<i>Deal, N. J.</i>	55 N. C.
† William Crawford White,	<i>Hoboken, N. J.</i>	33 N. C.
† John Roland Wolff,	<i>New Dorchester, Mass.</i>	17 N. C.
† Harold Burton Woodward,	<i>Terryville.</i>	36 N. C.
George William Wriston,	<i>Springfield, Mass.</i>	45 N. C.
§ Carl Roland Yanson,	<i>Hackensack, N. J.</i>	39 N. C.
Elizabeth Norton Sweet,	<i>Middletown.</i>	274 High St.

SPECIAL STUDENTS.

NAMES.	RESIDENCES.	ROOMS.
Samuel Copran Dinsmore,	<i>Middletown.</i>	173 High St.
Clarence Rollin Newton,	<i>Woodbridge.</i>	Δ. K. E. House.
Harriet Chase Jacobson,	<i>Middletown.</i>	Industrial School.
Mary Seabury Starr,	<i>Hartford. 179 Sigourney St., Hartford.</i>	

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GENERAL STATEMENT.

COURSES OF STUDY.—The College presents to its undergraduate students the option of three parallel courses of study, each extending through four years, named respectively the Classical Course, the Latin-Scientific Course, and the Scientific Course.

In the Classical Course, the study of Latin and Greek forms a large part of the required work of the first year. In the Latin-Scientific Course, Greek is omitted, and, in the Scientific Course, both Greek and Latin are omitted, in order to give more extended opportunity for the study of modern languages, science, and literature.

REQUIRED AND ELECTIVE STUDIES.—In each of the foregoing courses, nearly all the studies of the first year are required. In the three remaining years, the amount of required work is progressively diminished, the student being allowed to complete his quota by selecting from a wide range of elective studies. He is expected, however, to regulate his choice so that his electives will together form an harmonious and symmetrical course of study; and in no case is a student allowed to select a study which he is not, in the judgment of his instructors, qualified to pursue with advantage.

SPECIAL COURSES.—Students who do not desire to complete any one of the foregoing courses may receive instruction in such studies as they may select, provided they prove themselves, upon examination, qualified to pursue them with advantage. It should, however, be understood that this provision is intended for the benefit, not of those students who are incompetent to take one of the regular courses, but of those who have already obtained a preliminary education so thorough as to enable them to pursue with advantage extended

courses of study in particular departments. Such special students will be expected to attend all exercises assigned them, and will be subject to all the general rules of the college.

GRADUATE STUDIES.—Extended instruction is given to those who wish to pursue graduate courses of study in any of the departments. Further information concerning such graduate courses is given in the reports of the several departments on courses of instruction, and also in connection with the statement of conditions for the degrees of Master of Arts and Master of Science.



TERMS OF ADMISSION.

CLASSICAL COURSE.*

Candidates for admission to the Classical Course are examined in the following subjects:—

- LATIN.—1. Latin grammar, including prosody.
2. Caesar,—Gallic War, books I.—IV.
3. Cicero,—the four orations against Catiline, and those for Archias and for the Manilian Law.
4. Vergil,—Aeneid, books I.—VI., and Eclogues.
5. Translation at sight into English of passages of Latin, both prose and poetry, of average difficulty.
6. Translation into Latin of simple English sentences and of easy narrative passages based on the prose authors read.

With the passages set under headings 5 and 6, a vocabulary of the less common words is supplied.

In place of the requirements specified under headings 2, 3, and 4, equivalent readings will be accepted, but, in general, prose will not be accepted instead of poetry, nor *vice versa*.

The Roman system of pronunciation is used in all the Latin work of the college course, and it is expected that applicants for admission will be well versed in it. They should also be well drilled in the observance of the laws of quantity in oral reading, especially in Vergil and Ovid.

GREEK.—1. Greek grammar, including prosody,—Hadley-Allen's or Goodwin's.

2. Xenophon,—Anabasis, books I.—IV.
3. Homer,—Iliad, books I.—III.
4. Translation at sight of one or more passages from Xenophon.
5. Translation into Greek of easy narrative passages based on the required books of the Anabasis.

* For announcement of prize for excellence in the studies preparatory to admission, see "Ayres Prize."

ANCIENT HISTORY AND GEOGRAPHY.—1. History of Rome to the death of Marcus Aurelius.

2. History of Greece to the capture of Corinth, 146 B. C.

3. Ancient geography.

The following books are recommended as the basis of instruction in ancient history and geography:—

1. Botsford's History of Rome.

2. Botsford's History of Greece.

3. Tozer's Primer of Ancient Geography.

Familiarity with map-drawing is also especially desirable.

MATHEMATICS.—1. Algebra,—Fundamental operations, factors, common divisors and multiples, fractions, negative quantities and the interpretation of negative results, powers and roots, the binomial theorem for positive integral exponents, radicals, equations of the first and second degrees with one or more unknown quantities, putting problems into equations, ratios and proportions, arithmetical and geometrical progressions.

2. Plane geometry,—Demonstrations, constructions, and solutions of numerical problems.

ENGLISH.—1. *Reading and Practice*. A limited number of books are assigned for reading. The candidate is required to present evidence of a general knowledge of the subject-matter of these books, and to answer simple questions on the lives of their authors. The form of examination will usually be the writing of a paragraph or two on each of several topics, to be chosen by the candidate from a considerable number—perhaps ten or fifteen—set before him in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and calls for only a general knowledge of the substance of the books. In place of a part or the whole of this test, the candidate may present an exercise book, properly certified to by his instructor, containing compositions or other written work done in connection with the reading of the books. In preparation for this part of the requirement, it is important that the candidate shall have been instructed in the fundamental principles of rhetoric.

The books set for this part of the examination will be:—

1905—Shakspeare's Merchant of Venice and Julius Caesar; The Sir Roger de Coverley Papers in *The Spectator*; Goldsmith's Vicar of

Wakefield; Coleridge's *Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *Princess*; Lowell's *Vision of Sir Launfal*; George Eliot's *Silas Marner*.

1906, 1907, and 1908 — Shakspeare's *Macbeth* and *Merchant of Venice*; The Sir Roger de Coverley Papers in *The Spectator*; Irving's *Goldsmith*; Coleridge's *Ancient Mariner*; Scott's *Ivanhoe* and *Lady of the Lake*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*; Lowell's *Vision of Sir Launfal*; George Eliot's *Silas Marner*.

2. *Study and Practice.* A smaller number of books are assigned for more careful study. The examination upon these books covers subject-matter, form, and structure, and also tests the candidate's ability to express his knowledge with clearness and accuracy. In addition, the candidate may be required to answer questions involving the essentials of English grammar, and questions on the leading facts in those periods of English literary history to which the prescribed works belong.

The books set for this part of the examination will be:—

1905—Shakspeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton* and on Addison.

1906, 1907, and 1908—Shakspeare's *Julius Caesar*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*; Macaulay's *Essay on Milton*, and *Life of Johnson*.

NOTE.—No candidate will be accepted in English whose work is notably defective in point of spelling, punctuation, idiom, or division into paragraphs.

LATIN-SCIENTIFIC COURSE.

Candidates for admission to the Latin-Scientific Course are examined in the following subjects:—

LATIN.—Same requirements as for the Classical Course.

ANCIENT HISTORY AND GEOGRAPHY.—Same requirements as for the Classical Course, including Greek history and geography.

MATHEMATICS.—Same requirements as for the Classical Course.

ENGLISH.—Same requirements as for the Classical Course.

Four additional courses, to be selected from the following list (provided that at least one course in modern languages must be selected):—

1. **ELEMENTARY FRENCH** (counting as two courses).—Such a knowledge of the language is required as may be obtained by the reading of at least 400 pages, part of which should be read at sight. The examination consists of the translation at sight into English of easy passages of French, elementary grammatical questions, and the translation of simple English sentences into French. To meet this requirement two years' work will generally be necessary.

2. **ELEMENTARY GERMAN** (counting as two courses).—Such a knowledge of the language is required as may be obtained by the reading of at least 300 pages, part of which should be read at sight. The examination consists of the translation at sight into English of easy passages of German, elementary grammatical questions, and the translation of simple English sentences into German. To meet this requirement two years' work will generally be necessary.

3. **ADVANCED FRENCH**.—The requirement includes the reading of not less than 600 additional pages of French (including at least two works of a dramatic character), and regular practice in writing and speaking French. At least one additional year of study will be necessary to meet this requirement.

4. **ADVANCED GERMAN**.—The requirement includes the reading of at least 300 additional pages of German (not more than half of which should be fiction), and regular practice in writing and speaking German. At least one additional year of study will be necessary to meet this requirement.

5. **ADVANCED MATHEMATICS** (counting as two courses).—(1) Solid geometry. (2) Plane trigonometry, with the use of logarithmic and trigonometric tables. (3) Analytical geometry,—the straight line, the circle, and elementary properties of the conic sections.

6. **PHYSICAL GEOGRAPHY AND BOTANY**.—(1) In physical geography, such a knowledge of the subject is required as may be gained from the study of the text-book of any one of the following authors: Tarr, Davis, Gilbert and Brigham, Hinman, Dryer, and Geikie. Certificates in physical geography will not be accepted without examination unless one of the text-books above mentioned has been used, nor unless the time devoted to the study has been at least the equivalent of four exercises a week for a half-year.

(2) In botany, the candidate must show such a knowledge of the subject as may be gained from either (1) the study of morphological and structural botany, as included in the more recent elementary botanical text-books of Spaulding or Bergen; or (2) the study of Gray's Lessons in Botany, accompanied by analysis and description of flowers.

7. PHYSICS.—(1) Such a knowledge of the subject is required as may be gained from Carhart and Chute's Elements of Physics, Gage's Elements of Physics, Avery's School Physics, Wentworth and Hill's Text-book of Physics, or Hoadley's Brief Course in Physics.

(2) The candidate must also have performed a series of at least thirty experiments *involving careful measurements*, in addition to any qualitative or very simple quantitative experiments he may have performed, and must present his original note-book, containing full records of the experiments, and certified to by his instructor. Such experiments as the exercises in Hall and Bergen's Text-book of Physics, the experiments in Chute's Physical Laboratory Manual, or the quantitative experiments in Stone's Experimental Physics, will be considered satisfactory.

8. CHEMISTRY.—(1) Such a knowledge of the subject is required as may be gained from Storer and Lindsay's Manual of Chemistry (omitting pp. 230-286), or from Remsen's Chemistry, Elementary Course.

(2) The candidate must also have performed a series of at least fifty experiments, and must present his original note-book, containing records of the processes and results of the experiments, and certified to by his instructor.

9. HISTORY OF ENGLAND AND OF THE UNITED STATES.—Such a knowledge of the subject is required as may be gained from Montgomery's Leading Facts of English History, and Johnston's History of the United States for Schools or Montgomery's Student's American History.

SCIENTIFIC COURSE.

Candidates for admission to the Scientific Course are examined in the following subjects:—

MATHEMATICS.—Same requirements as for the Classical Course.

ENGLISH.—Same requirements as for the Classical Course.

HISTORY OF ENGLAND AND OF THE UNITED STATES, as specified on page 31.

Eight additional courses, to be selected from the following list (provided that at least one course in modern languages and at least one course in natural science must be selected):—

1. ELEMENTARY LATIN (counting as two courses).—Grammar; Caesar's Gallic War, books I.-IV.; translation into Latin of simple English sentences.

2. ADVANCED LATIN.—(1) *Either* Cicero,—the four orations against Catiline, and those for Archias and for the Manilian Law; *or* Vergil,—Aeneid, books I.-VI., and Eclogues. (2) Translation at sight into English of passages of easy narrative prose Latin.

3. ADVANCED MATHEMATICS (counting as two courses), as specified on page 30.

4. ELEMENTARY FRENCH (counting as two courses), as specified on page 30.

5. ELEMENTARY GERMAN (counting as two courses), as specified on page 30.

6. ADVANCED FRENCH, as specified on page 30.

7. ADVANCED GERMAN, as specified on page 30.

8. PHYSICAL GEOGRAPHY AND BOTANY, as specified on pages 30 and 31.

9. PHYSICS, as specified on page 31.

10. CHEMISTRY, as specified on page 31.

SPECIAL COURSES.

Special students, not candidates for a degree, may be admitted, upon passing such examinations as the Faculty shall in each case prescribe. (See also page 25.)

GENERAL REGULATIONS CONCERNING ADMISSION.

ADVANCED STANDING.—All candidates for advanced standing must satisfy the Faculty of their proficiency in the preparatory studies, the required studies already pursued by the classes they propose to enter, and the proper quota of elective studies, or studies recognized as equivalents therefor. A certificate of standing in another college is not accepted as evidence of such proficiency, without such further inquiry or examination as may be necessary in the judgment of the respective instructors.

PRELIMINARY EXAMINATIONS.—A candidate for admission may obtain a preliminary record a year or more in advance of the time at which he expects to enter college, on condition of passing, in the June and September examinations of any year taken together, in the equivalent of at least half of the requirements for admission. Teachers and prospective candidates for admission may obtain from the Secretary of the Faculty a schedule of the values which will be assigned to each subject in determining the question of a student's preliminary record.

DATE AND PLACE OF EXAMINATIONS.—The regular examination for admission is held on the Thursday and Friday of Commencement week. Candidates must present themselves at 9 A. M. on the former day. A second examination is held, commencing on the day preceding the first day of the first term. Candidates may be examined in Philadelphia, Cleveland, Cincinnati, or Chicago, provided they make application to the President before June 1. The time of these examinations will be Thursday and Friday of Commencement week. If no applications are received before June 1, these examinations will not be held.

ADMISSION BY CERTIFICATE.—Certificates covering the foregoing requirements for admission to college are received from certain schools of good standing, which have been approved by the Faculty. The privilege of certification is not given to schools which require less than four years of Latin and three years of Greek in their college preparatory course.

No certificate will be received hereafter from any school in New England which has not been approved by the New England College Entrance Certificate Board, of which this college is a member. The Secretary of the Board is Prof. N. F. Davis, of Brown University, Providence, R. I., to whom applications from New England schools for the certificate privilege should be addressed. Such applications must reach the Secretary not later than April first, if approval is desired for the next academic year.

Diplomas (but not certificates) issued by the Regents of the University of the State of New York, and pass cards supplementary to such diplomas, will be received in lieu of examination in the subjects which they cover.

Certificates from preparatory schools and Regents' diplomas are never accepted in lieu of examination for advanced standing.

Students entering by certificate are considered as on trial until the completion of the mid-year examinations. A student admitted to college on certificate, who is dismissed during his Freshman year on account of inability to keep up with his class, must take examinations in all subjects required for admission, in case he desires to return to college.

Detailed information concerning admission by certificate may be obtained on application to the Secretary of the Faculty.

ADMISSION OF WOMEN.—At their annual meeting in June, 1900, the Trustees of the University passed the following resolution: "The University will admit women in a number limited to those who can be accommodated in the college buildings and in their own homes in Middletown, and the number in the University shall be limited to twenty per cent. of the whole number of students in the preceding year."

In view of the limitation of the number of women to be admitted, all women desiring admission should, if possible, make application to the Secretary of the Faculty before June 15th, though applications made later will in some cases be considered.

Miss Julia Brazos, Ph. B., Dean of Women, has general oversight of the interests of the women students, and correspondence from women on all matters, except admission, course of study, and tuition scholarships, should be addressed to her.

All candidates for admission must present satisfactory testimonials of good moral character; and certificates of regular dismission will be required from those who have been members of other colleges.

COURSES OF INSTRUCTION.

For regulations concerning selection of studies, see page 69.

The figures ¹ or ² following the number of a course indicate respectively that the course is offered for the first or the second half-year.

The place of meeting of each course is indicated by means of the following abbreviations: F. H.=Fisk Hall; J. H.=Judd Hall; O. H.=Observatory Hall; S. L.=Scott Laboratory of Physics; CHEM. LAB., BIOL. LAB.=Chemical, Biological Laboratory.

The Roman numerals in parenthesis following each course indicate the examination group to which it is assigned. For table of groups, see pages 67 and 68.

An asterisk prefixed to the number of a course indicates that it can be elected only with the previous approval of the instructor.

LATIN.

PROFESSOR MERRILL; ASSOCIATE PROFESSORS NICOLSON
AND CHASE.

NOTE.—Of the following courses in Latin Courses I.-IV. are given every year; of Courses V.-XXI. each is given in alternate years only, the bracketed courses being omitted in 1904-05, but to be given in 1905-06 in place of the unbracketed courses. Course I. is required of all Classical and Latin-Scientific Freshmen; Courses II.-IV. are elective for those who have taken Course I., and are required of candidates for preliminary honors in Classics. Courses V.-XXI. are elective for those who have taken Courses I.-III., but students of marked ability in the reading of Latin, who are taking Courses II. and III., may be admitted to certain of them by special permission from the instructor, to whom application should in each case be made.

I. LIVY,—Books 21 and 22 (*first half-year*). TERENCE,—Phormio; PLAUTUS,—Captivi; CICERO,—De Senectute (*second half-year*). Exercises in sight translation and in prose composition throughout the year. SECTION 1, *Mon., Wed., Th., Fri., at 9*; SECTION 2, *Mon., Wed., Th., Fri., at 11*; SECTION 3, *Mon., Wed., Th., Fri., at 12.* 31 F. H. PROFESSORS NICOLSON AND CHASE. (II.)

Course I. is required of Classical and Latin-Scientific Freshmen.

II.¹ CICERO,—Selected Letters. *Tu., Th., at 9 (first half-year).*
37 F. H. PROFESSOR MERRILL. (VIII.)

III.² HORACE,—Odes and Epodes. *Tu., Th., at 9 (second half-year).* 37 F. H. PROFESSOR MERRILL. (VIII.)

IV. LATIN PROSE COMPOSITION. The course begins with the systematic study of the elementary principles of Latin rhetoric, accompanied by brief practical exercises, and proceeds, in the second half-year, to the rendering into Latin of connected passages of modern historical and epistolary prose. *Fri., at 3.* 37 F. H. PROFESSOR CHASE.

V. LATIN POETRY. An outline of the development and general characteristics of poetic art among the Romans, based upon the rapid reading, from the purely literary standpoint, of selections from the works of Latin poets, major and minor, of different ages, and accompanied by illustrative lectures, readings, and discussions. This course (with Course VI.) is especially adapted for those students who wish to acquire a general idea of Latin literature and practice in reading rather than in detailed study. *Tu., Th., at 11.* 37 F. H. PROFESSOR MERRILL. (X.)

[VI. ROMAN HISTORIANS. The rapid reading of considerable amounts of the extant work of the more important Roman historians, from Sallust to Ammianus Marcellinus, for the purpose of gaining a general notion of the literary and historical method pursued by each, and greater facility in the reading of Latin. No detailed study is required. *Twice a week.* PROFESSOR MERRILL.]

VII.¹ ROMAN ELEGIAC POETRY,—Selections from Tibullus, Propertius, and the Amores of Ovid. *Twice a week (first half-year).* PROFESSOR MERRILL.

VIII.¹ OVID,—the Fasti, with especial attention to questions of Roman history and ritual. *Tu., Th., at 10 (first half-year).* 37 F. H. PROFESSOR NICOLSON. (IX.)

IX.¹ HORACE,—Selections from the Satires and Epistles. *Twice a week (first half-year).* PROFESSOR CHASE.

[X.¹ LUCRETIVUS,—Books 1 and 3, and selections from the other books. *Twice a week (first half-year).* PROFESSOR NICOLSON.]

[XI.² CATULLUS. *Twice a week (second half-year).* PROFESSOR MERRILL.]

[XII.² JUVENAL AND MARTIAL,—Selections. *Twice a week (second half-year)*. PROFESSOR NICOLSON.]

XIII.² TACITUS,—Selections from the Annals I.–VI., designed to illustrate the author's conception of the character of Tiberius, and of the upbuilding of the principate. *Tu., Th., at 12 (second half-year)*. 37 F. H. PROFESSOR MERRILL. (XI.)

XIV.² PETRONIUS AND APULEIUS,—Selections from the Satyricon of Petronius and the Metamorphoses of Apuleius, together with the Apocolocyntosis of Seneca. *Tu., Th., at 10 (second half-year)*. 37 F. H. PROFESSOR NICOLSON. (IX.)

[XV.¹ PLINY THE YOUNGER,—Selected Letters, to illustrate (together with Course XII.) the state of Roman society at the close of the first century after Christ. *Twice a week (first half-year)*. PROFESSOR MERRILL.]

XVI. ROMAN PRIVATE LIFE AND SOCIAL INSTITUTIONS. A course of lectures, illustrated by photographs, engravings, and lantern slides, and requiring some collateral study of original and of secondary authorities, and the careful preparation of note-books. *Wed., Fri., at 9*. 37 F. H. PROFESSOR MERRILL. (II.)

[XVII. ROMAN TOPOGRAPHY AND PUBLIC BUILDINGS. A course of lectures, illustrated by photographs, engravings, and lantern-slides, and requiring some collateral study of original and of secondary authorities, and the careful preparation of note-books. *Twice a week*. PROFESSOR MERRILL.]

XVIII.¹ LATIN EPIGRAPHY. An introductory course, with especial attention to inscriptions of historical interest. The course is prefaced by a brief survey of the general classes and formal characteristics of Latin inscriptions, based upon Egbert's Introduction. *Wed., Fri., at 12 (first half-year)*. 32 F. H. PROFESSOR MERRILL. (V.)

XIX.² ROMAN NUMISMATICS. A course of lectures on the origin and history of Roman coinage, with especial attention to numismatic theories and types, and constant illustration by original specimens from the collections of the instructor and of the University. The lectures are followed by practical demonstrations and exercises in the use of coins as historical documents. *Wed., Fri., at 12 (second half-year)*. 32 F. H. PROFESSOR MERRILL. (V.)

[XX.² LATIN PALAEOGRAPHY. A course of lectures on the book-hands of the middle ages, accompanied by practical exercises with the use of facsimiles, and followed by a brief survey of the cause and character of manuscript errors, and the methods of criticism,—the course serving as an introduction to textual study. *Twice a week (second half-year).* PROFESSOR MERRILL.]

[XXI.² LATIN GRAMMAR,—A discussion of the underlying principles of Latin grammar, designed especially for those who intend to teach Latin. *Twice a week (second half-year).* PROFESSOR CHASE.]

For the most successful prosecution of even the earlier courses in Latin, ability to read German prose on philological subjects is decidedly advantageous, and for Courses XVI.–XX. it is generally necessary. Students, therefore, who look forward to the study of Latin beyond the more elementary courses, and who have on admission to college no acquaintance with German, should devote especial attention to that subject in the Freshman year.

LINGUISTICS.

A course of lectures, with collateral reading, on the general principles of the science of language, intended not merely for students of Latin and Greek, but for all students who are interested in the problems concerned with the growth, development and relationship of languages in general. The discussion will cover such topics as the laws of relationship in language; the causes of change in language; the principles governing sound-change, with an outline of the general principles of phonetics; the influence of analogy in producing changes in language; the direct influence of languages upon one another; families and groups of languages; methods of the comparative study of languages; the Indo-European group of languages; the home and character of the original Indo-European language; the history of the study of comparative philology, its importance, and its historical and ethnological results. *Tu., Th., at 3 (second half-year).* 37 F. H. PROFESSOR CHASE. (XII.)

This course is elective for Juniors.

GREEK.

ASSOCIATE PROFESSORS PATON AND CHASE.

NOTE.—This announcement of courses in Greek is for the present year only. It is probable that there will be several changes after 1905.

I. LYSIAS,—Select Orations; PLATO,—Apology (*first half-year*). PLATO,—Crito and Phædo (selections); HOMER,—Odyssey (*second half-year*). SECTION 1, *Tu., Wed., Th., Fri., at 9*; SECTION 2, *Tu., Wed., Th., Fri., at 10*. 31 F. H. PROFESSOR PATON. (III.)
Course I. is required of Classical Freshmen.

II. EURIPIDES,—Alcestis. AESCHYLUS,—Prometheus Bound. Lectures and collateral reading on the Greek theatre and the Attic tragedy (*first half-year*). PROFESSOR PATON. THUCYDIDES,—Books VI. and VII. The History of the Sicilian Expedition (*second half-year*). *Tu., Th., at 11*. 13 F. H. PROFESSOR CHASE. (X.)

Course II. is elective for those who have taken Course I. It is required of candidates for preliminary honors in classics.

III. HISTORY OF GREEK LITERATURE. Lectures and recitations. Each student pursues a short course of special reading in Greek or English. *Th., at 2*. 31 F. H. PROFESSOR PATON.

Course III. is elective for those who take Course II., or for Juniors. It is required of candidates for preliminary honors in classics.

IV. DEMOSTHENES,—The Oration on the Crown. Collateral study of the oration of Aeschines against Ctesiphon, and of the life and times of Demosthenes (*first half-year*). AESCHYLUS,—Seven again Thebes; SOPHOCLES,—Antigone; EURIPIDES,—Medea (*second half-year*). *Mon., Wed., Fri., at 8*. 31 F. H. PROFESSOR PATON. (I.)

Course IV. is elective for those who have taken Course II.

[V. PLATO.—Gorgias. ARISTOPHANES,—One play. LYRIC POETS.—Selections. *Three times a week*. PROFESSOR PATON.]

Course V. is elective for those who have taken Course II. It is omitted the present year.

[VI.¹ THE ACROPOLIS OF ATHENS AND ITS MONUMENTS. This course includes a study of the characteristics of Greek architecture and of Athenian sculpture. Lectures, collateral reading, and reports. *Twice a week (first half-year)*. PROFESSOR PATON.]

Course VI. is elective for those who have taken Course IV. or who take Course V. It is omitted the present year.

[VII.² HOMER. The Iliad. Books XIX.—XXIV. are read. In addition there is some study of the source and tradition of the Homeric language. *Twice a week (second half-year)*. PROFESSOR CHASE.]

Course VII. is elective for those who have taken Course IV. or who take Course V. It is omitted the present year.

VIII.² THE PUBLIC ANTIQUITIES OF ATHENS. This course includes a study of the organization of Athenian society, slavery, religion as connected with the state, and the duties of the Athenian as a citizen. Lectures, collateral reading, and reports. *Mon., Wed., at 3 (second half-year)*. 31 F. H. PROFESSOR PATON. (VI.)

Course VIII. is elective for those who have taken Course II.

It is very desirable that those who elect the advanced courses in Greek should be able to read German prose on philological subjects. The attention of students of Greek is called to the course in linguistics.

GERMAN.

ASSOCIATE PROFESSOR FIFE; MR. SUPER.

I. ELEMENTARY GERMAN. Harris's German Lessons; Carruth's German Reader; Gerstäcker,—Germelshausen; Leander,—*Träume-reien*; Heyse,—*L'Arrabbiata*; Baumbach,—*Die Nonna*; Fulda,—*Unter vier Augen*. Conversation exercise and easy prose composition. Thomas's Practical German Grammar. Wesselhoeft's Exercises in German Conversation and Composition. SECTION 1, *Mon., Wed., Fri., at 8*. 37 F. H. SECTION 2, *Mon., Wed., Fri., at 12*. 15 F. H. PROFESSOR FIFE and MR. SUPER. (I.)

For rules in regard to the election of I. German, see page 45.

II. ADVANCED GERMAN. Eichendorff,—*Aus dem Leben eines Taugenichts*; Schiller,—*Wilhelm Tell*; Lessing,—*Minna von Barnhelm*; Riehl,—*Burg Neideck*; Heine,—*Die Harzreise*; Keller,—*Die-teen*; Sudermann,—*Der Katzensteg*. A part of this reading is done at sight. Von Jagemann's German Prose Composition. Thomas's Practical German Grammar. *Mon., Wed., Fri., at 11*. 15 F. H. PROFESSOR FIFE. (IV.)

Course II. is elective for those who have taken Course I.

III. GERMAN CONVERSATION AND GERMAN DAILY LIFE. Practice in conversation based on Vos's Materials for German Conversation and R. Kron's German Daily Life, supplemented by lectures and pictures illustrating German life and institutions. All class exercises are conducted in German. *Tu., at 2.* 39 F. H. PROFESSOR FIFE.

Course III. is elective for those who have taken Courses I. and II. It may be elected, with the permission of the instructor, together with Course II.

* IV.¹ PROSE COMPOSITION AND ADVANCED GRAMMAR. Poll's German Prose Composition, supplemented by independent themes. Bauer-Duden, — Grundzüge der neuhochdeutschen Grammatik. Von Jagemann's German Syntax. An introduction to German historical grammar. *Mon., at 7 p. m.; Th., at 2 (first half-year).* 36 F. H. PROFESSOR FIFE.

Course IV. is elective, with the permission of the instructor, for those who have taken Courses I.—III. It is intended especially for those preparing to teach German.

V. GOETHE AND SCHILLER. 1. A study of Goethe's life with selected parallel readings from his plays and lyrics. During the current year the following are read, in the order named: Egmont, Hermann und Dorothea, Lyrics (Goebel's edition), Faust I. Lectures and themes. 2. A study of Schiller's life, with selected readings. During the current year, Wallenstein's Lager and Tod; Ballads (Johnson's edition). *Tu., Th., Fri., at 12.* 39 F. H. PROFESSOR FIFE. (XI.)

Course V. is elective for those who have taken Courses I. and II.

VI.¹ NINETEENTH CENTURY LITERATURE. Various phases and periods are studied in successive years. During the current year the earlier drama of the nineteenth century is taken up. Rapid readings from Kleist, Grillparzer, Hebbel, Freytag. The first work read is Kleist's Prinz von Homburg. *Tu., Th., at 3 (first half-year).* 39 F. H. MR. SUPER. (XII.)

VII.² HISTORICAL AND CRITICAL PROSE. Rapid readings in contemporary German historians and essayists. The course is designed as a further introduction to German culture, as well as an aid to those who desire greater proficiency in reading contemporary German prose. The first text read is Prehn's Journalistic German. *Tu., Th., at 3 (second half-year).* 39 F. H. PROFESSOR FIFE. (XII.)

Courses VI. and VII. are elective for those who have taken Courses I. and II.

VIII.² THE HISTORY OF GERMAN LITERATURE. From the beginning of the seventeenth century to the present time. A course of lectures, supplemented by parallel readings and themes. Robertson's History of German Literature is used for reference. All lectures and class exercises are conducted in German. *Tu., Th., at 11 (second half-year).* 36 F. H. PROFESSOR FIFE. (X.)

Course VIII. is elective for those who have taken Courses I. and II., and who have taken, or are taking, Course III.

[IX.¹ OLD HIGH GERMAN. Braune's Abriss der althochdeutschen Grammatik. Selected readings from Braune's Althochdeutsches Lesebuch. *Twice a week (first half-year).* PROFESSOR FIFE.]

[X.² MIDDLE HIGH GERMAN. Paul's Mittelhochdeutsche Grammatik. Readings from Hartmann von Aue's Der Arme Heinrich (Bech's edition), the Nibelungenlied (Zarncke), and Walther von der Vogelweide (Pfeiffer-Bartsch). *Twice a week (second half-year).* PROFESSOR FIFE.]

Courses IX. and X. are elective for those who have taken Courses I.-III. They are omitted the present year.

GRADUATE INSTRUCTION.

Courses IX. and X. are intended as an introduction to graduate work, and may, with additional requirements, be taken as graduate courses. Further graduate instruction may be arranged for through private conference.

ROMANCE LANGUAGES.

PROFESSOR KUHN: MR. SUPER.

I. ELEMENTARY FRENCH. Frasef and Squair's French Grammar, Part I. Kuhn's French Reading for Beginners. Margueritte,—Strasbourg; Erckmann-Chatrian,—Madame Thérèse; About,—Le Roi des Montagnes. Part of this reading is done at sight. There is also personal drill in pronunciation. SECTION 1, *Mon., Wed., Fri., at 8.* 14 F. H. SECTION 2, *Mon., Wed., Fri., at 3.* 39 F. H. MR. SUPER. (VI.)

For rules in regard to the election of I. French, see page 45.

II. ADVANCED FRENCH. Fraser and Squair's French Grammar, Part II. This course has for its main object the study of advanced grammar and composition, in connection with the reading of a large amount of French. Special attention is paid to sight reading in class, and for each half-year collateral reading is given to be prepared by the student himself for examination. On Fridays Duval's *Histoire de la Littérature Française* is read and is supplemented by informal lectures. *Mon., Wed., Fri., at 11.* 39 F. H. PROFESSOR KUHNS. (IV.)

Course II. is elective for those who have taken Course I.

*III. FRENCH COMPOSITION AND CONVERSATION. The object of this course is to give practice in writing, speaking, and hearing French. There is a large amount of composition, interesting stories are read and discussed, and lectures are given in French on the modern French novel. During the year several informal lectures on travel in Europe are given in French by Professor Kuhns. These lectures are illustrated by lantern-slides. *Tu., Th., at 12.* 37 F. H. MR. SUPER. (XI.)

Course III. is elective, with the permission of the instructor, for those who have taken, or are taking, Course II.

*IV. MODERN FRENCH LITERATURE. Selections from the works of the more important authors of the seventeenth, eighteenth, and nineteenth centuries. There is at each recitation translation of English into French. Further, frequent lectures are given on the general state of literature in France in the seventeenth, eighteenth, and nineteenth centuries. In addition, each member of the class must take a somewhat extended course of reading, and must prepare for the class an abstract of what he has read. *Tu., Th., at 10.* 39 F. H. PROFESSOR KUHNS. (IX.)

Course IV. is elective, with the permission of the instructor, for those who have taken, or are taking, Course III.

[V. OLD FRENCH. Clédât's *Morceaux Choisis des Auteurs Français du Moyen Age*. Lectures and exercises in Old French etymology, based on *La Vie de St. Alexis*. *Once a week.* PROFESSOR KUHNS.]

Course V. is elective for those who have taken Courses I.-IV. It is omitted the present year.

*VI. FRENCH SEMINARY. This course is especially designed to meet the needs of those who intend to teach French. It includes the

study of grammar and composition, the phonetics of French pronunciation, methods of teaching, bibliography, and other appropriate topics. *Tu., at 8; Th., at 4.* 36 F. H. PROFESSOR KUHN. (VII.)

Course VI. is elective, with the permission of the instructor, for those who have taken Courses I.-IV.

[VII. ELEMENTARY ITALIAN. Italian Principia, I. De Amicis, —Cuore; Pellico,—Le Mie Prigioni; Manzoni,—I Promessi Sposi. In addition to the regular work by the class in translating modern prose, the instructor translates and interprets to the class the *Inferno* and the *Purgatorio* of Dante, the last half-hour of each recitation being devoted to this exercise. As a preparation for this part of the work, the class is required to read Dinsmore's *Aids to the Study of Dante*. *Twice a week.* PROFESSOR KUHN.]

Course VII. is elective for Sophomores who have taken I. French. It is omitted the present year.

VIII. ADVANCED ITALIAN. Dante, Petrarch, Tasso, Ariosto. Lectures on the history of Italian literature. *Mon., Wed., at 8.* 39 F. H. PROFESSOR KUHN. (I.)

Course VIII. is elective for those who have taken Course VII.

IX. DANTE IN ENGLISH. The *New Life* and the *Divine Comedy* are read in English translations. The instructor interprets these books in the light of the history, science, theology and philosophy of the Middle Ages, compares Dante with Homer, Shakspeare, and other world-poets, and shows his influence on modern thought, art and literature. *Fri., at 8.* 39 F. H. PROFESSOR KUHN. (I.)

Course IX. is elective for Juniors.

X. ELEMENTARY SPANISH. Grammar, and reading of simple Spanish prose. *Tu., Th., at 8.* 39 F. H. MR. SUPER. (VII.)

Course X. is elective for Sophomores who have taken I. French.

[XI. ADVANCED SPANISH. The chief emphasis in this course is laid on the *Don Quijote* of Cervantes. *Twice a week.* MR. SUPER.]

Course XI. is elective for those who have taken Course X. It is omitted the present year.

GRADUATE INSTRUCTION.

Course V. is designed for graduate students, but is elective for undergraduates.

Of the courses in French and German, Classical Freshmen are required to pursue either I. French or I. German, but are allowed their option between the two. Students in the Latin-Scientific Course are examined at entrance in the equivalent of either I. French or I. German, as they may elect, and in the Freshman year are required to pursue one course in French or German. They may either continue the study of the language in which their entrance examination was taken, or may begin the study of the other language, as they may elect. Students in the Scientific Course are required to complete the equivalent of Courses I. and II. in French and I. and II. in German. Such of these courses as they have not pursued and passed in before entering college, they must take as soon as possible after entering.

ENGLISH LITERATURE.

PROFESSOR WINCHESTER.

I. GENERAL INTRODUCTION TO ENGLISH LITERATURE. I. An outline of the history of the literature. Simond's History of English Literature, with lectures. *First half-year.*

2. Class-room reading and discussion of literary masterpieces, illustrative of different varieties and periods of English literature. The works selected are: Chaucer's Prologue to the Canterbury Tales, and the Nonne Preestes Tale; Shakspeare's Hamlet; Milton's minor poems and Samson Agonistes. *Second half-year.*

3. A brief course of collateral reading, with written recitations and essays upon subjects drawn from the reading. Members of the class choose one of the courses in Winchester's Five Short Courses of Reading in English Literature. These courses consist of selections from the following authors:

(1) 1559-1674. Marlowe, Green, Shakspeare, Bacon, Milton.

(2) 1660-1745. Dryden, Addison, Steele, Swift; with Johnson's Lives of Dryden, Swift, and Pope, and Thackeray's Lectures on the English Humourists.

(3) 1745-1789. Gray, Goldsmith, Johnson, Burke, Cowper, Burns; with Leslie Stephen's Life of Johnson, Dobson's Life of Goldsmith, Morley's Life of Burke.

(4) 1789-1832. Wordsworth, Coleridge, De Quincey, Lamb, Byron, Shelley, Keats.

(5) 1832-1880. Carlyle, Ruskin, Matthew Arnold, Browning, Tennyson.

This work is tested by a series of written recitations and theses during the year. *Mon., Wed., at 12.* 14 F. H. (V.)

Course I. is elective for Sophomores.

II. ENGLISH LITERATURE OF THE VICTORIAN PERIOD. Carlyle, Ruskin, Arnold, Browning, Tennyson. *Mon., Wed., Fri., at 9.* 14 F. H. (II.)

Course II. is elective for those who have taken Course I.

[III. ENGLISH POETRY, 1789-1832. Burns, Wordsworth, Coleridge, Scott, Byron, Shelley, Keats. *Three times a week.*]

Course III. is elective for those who have taken Course I. Courses II. and III. are given in alternate years, Course III. being omitted the present year.

IV. NEW ENGLAND LITERATURE, 1835-1885. Emerson, Longfellow, Lowell, Hawthorne, Whittier, Holmes. *Mon., Wed., at 11.* 23 F. H. (IV.)

[V. LITERATURE OF THE PERIOD OF QUEEN ANNE. Defoe, Steele, Addison, Swift, Bolingbroke, Pope. *Twice a week.*]

[VI. ESSAYISTS AND REVIEWERS OF THE EARLY NINETEENTH CENTURY. Jeffrey, Hazlitt, De Quincey, Lamb, Wilson, Hunt. *Twice a week.*]

Courses IV., V., and VI. are elective, with some restrictions, for those who have taken Course I., either Course II. or Course III., and Course VII. Courses V. and VI. are omitted the present year.

VII. ELEMENTS OF LITERARY CRITICISM. Discussion of the essential elements and the various forms of literature, with practical exercises in the application of critical principles. Winchester's Principles of Literary Criticism is used as a text-book. *Fri., at 11.* 29 F. H. (IV.)

Course VII. is elective for those who have taken Course I.

VIII. DEBATE. Weekly practical exercises. Two members of the class are appointed to conduct the debate at each exercise. They must prepare written briefs of their argument, which are revised and corrected by the instructor, and are then publicly posted four days before the debate. *Mon., at 10.* 29 F. H.

Course VIII. is elective for Seniors, and those who elect it are excused from half the rhetorical work required in Course IX.

IX. ENGLISH COMPOSITION. The rhetorical exercises of the Senior class are assigned to this department. Every Senior (unless excused from half this requirement by the provisions of Course VIII.) must write either four essays or two orations. All written work receives the personal criticism of the instructor.

GRADUATE INSTRUCTION.

Special provision for graduate instruction is made to meet the wants of individual students.

ENGLISH LANGUAGE.

PROFESSOR MEAD.

I. RHETORIC. Baldwin's College Manual of Rhetoric, Mead's Composition and Rhetoric. For supplementary reading, Wendell's English Composition is recommended. The members of the class are required to write numerous exercises and brief themes illustrating and applying the principles laid down in the text-books. These exercises and themes are discussed and criticised in the class-room, and also at hours appointed by the instructor. SECTION 1, *Mon.*, at 8; SECTION 2, *Mon.*, at 9; SECTION 3, *Tu.*, at 9 (*counting as two hours a week*). 29 F. H. (VIII.)

Course I. is required of Freshmen.

II. ENGLISH COMPOSITION. A. Sophomores are required to write six essays on subjects suggested or approved by the instructor.

B. Juniors write on subjects of their own selection, and choose one of the two following courses: Course I., consisting of five general and two departmental essays; Course II., consisting of two general and four departmental essays. The departmental essays must be written on subjects related to some department of college work and approved by the instructor in English.

Appointments for personal criticism are made for Sophomores and Juniors.

III.¹ OLD ENGLISH. This course is of fundamental importance as an introduction to the study of the English language and Early English literature. Cook's First Book in Old English, and readings in simple Old English prose. Translation at sight is a frequent exercise from the beginning. *Tu.*, *Th.*, at 3 (*first half-year*). 29 F. H. (XII.)

Course III. is elective for Sophomores.

IV.² OLD ENGLISH. Bright's Anglo-Saxon Reader, with additional readings in prose or poetry, as the class may elect. In this course reading at sight is especially encouraged. *Tu., Th., at 3 (second half-year).* 29 F. H. (XII.)

Course IV. is elective for those who have taken Course III.

[V. OLD ENGLISH LITERATURE. Brooke's History of English Literature from the Beginning to the Norman Conquest, with lectures on the history of Old English literature before 1100 A. D., and some account of contemporary Germanic literature. One aim of this course is to give to students whose work lies mainly in modern literature a survey of Old English prose and poetry before the Norman Conquest, and to describe the life of which the literature is a reflection. Typical selections from Old English poems are read in translation. *Once a week.*]

Course V. is elective for Sophomores. It is omitted the present year.

*VI. MIDDLE ENGLISH. A course mainly in Chaucer and typical fourteenth century poetry. The pieces read in class are discussed in lectures treating the period from the point of view of comparative literature. For this course, as at present arranged, no knowledge of Anglo-Saxon is required. *Wed., Fri., at 3.* 29 F. H. (VI.)

Course V. is elective for Juniors, with the permission of the instructor.

[VII. MIDDLE ENGLISH LITERATURE. A course of lectures on English literature from the Norman Conquest to the Revival of Learning. The aim of this course is to point out the chief literary types in the early literature of England, and to indicate the materials that have been used again in modern English literature. Especial attention is given to the Arthurian Romances and to Chaucer. *Once a week.*]

Course VII. is elective for Juniors. It is omitted the present year.

[VIII. BEOWULF. An advanced course in Old English poetry, with supplementary linguistic investigations. *Once (counting as twice) a week.*]

Course VIII. is elective for those who have taken Course IV. It is omitted the present year.

IX. HISTORY OF THE ENGLISH LANGUAGE. The aim of this course, which is of an untechnical character, is to show in lectures and class discussions how English words have been made, how they have changed their sound, their forms, and their meanings, how and when foreign words have been borrowed, and, in particular, how American English differs from that of England. The collateral reading is based upon Greenough and Kittredge's *Words and their Ways in English Speech* and various other books of reference. *Tu., Th., at 8.* 29 F. H. (VII.)

Course IX. is elective for Juniors.

HISTORY.

ASSOCIATE PROFESSOR DUTCHER.

I. ENGLISH HISTORY. From the earliest times to the present day. Gardiner's *Student's History of England*, Adams and Stephens's *Select Documents of English History*. Lectures and assigned work. *Tu., Th., at 8.* 11 F. H. (VII.)

Course I. is elective for Sophomores. Those intending to elect the later courses in history should elect Course I. in the Sophomore year.

[II. AMERICAN COLONIAL HISTORY, 1492-1789. Thwaites's *The Colonies*, Hart's *Formation of the Union*, MacDonald's *Select Charters*. Lectures and assigned work. *Three times a week.*]

Course II. is elective for those who have taken Course I. It is omitted the present year.

III. UNITED STATES HISTORY, 1789-1865. Hart's *Formation of the Union*, Wilson's *Division and Reunion*, MacDonald's *Select Documents of United States History*. Lectures and assigned work. *Tu., Th., Fri., at 12.* 11 F. H. (XI.)

Course III. is elective for those who have taken Course I. in history, or Course I. in economics. Courses II. and III. are given in alternate years, Course II. being omitted the present year.

IV. EUROPEAN HISTORY, 300-1600. Hassall's *Periods of European History*, vols. 1-4. Lectures and assigned work. *Mon., Wed., Fri., at 8.* 11 F. H. (I.)

Course IV. is elective for those who have taken Course I.

[V. EUROPEAN HISTORY, 1600-1890. Stephens's Syllabus of Modern European History; Hassall's Periods of European History, vols. 5-8. Lectures and assigned work. *Three times a week.*]

Course V. is elective for those who have taken Course I. Courses IV. and V. are given in alternate years, Course V. being omitted the present year.

*VI. HISTORICAL SEMINARY. Subject for the present year: Discussions of historical method, with special application to the study of select topics from the period of the American Revolution. *Tu., 7-10 p. m. (first and second terms), counting as two hours for the year. 10 F. H.*

Course VI. is elective, with the permission of the instructor, for Seniors who have taken Course I., either Course II. or Course III., and either Course IV. or Course V.

ECONOMICS AND SOCIAL SCIENCE.

PROFESSOR FISHER.

I. PRINCIPLES OF ECONOMIC SCIENCE. General introductory course. Recitations and discussions. *Tu., Th., at 9. 15 F. H. (VIII.)*

Course I. is required in the Junior or Senior year; with the permission of the instructor, it may be taken by Sophomores.

II. ADVANCED ECONOMICS. This course includes a brief historical view, on the basis of Ingram's History of Political Economy, and critical studies of the theory of value, with special reference to money, wages, and international trade. *Tu., Th., at 2. 12 F. H.*

Course II. is elective for those who have taken Course I.

[III. PUBLIC FINANCE. The economy of the state:—revenues from taxation, from government industries, and from other sources; the contraction, administration, conversion, and liquidation of public debts; government expenditures, their social and industrial effects. The work of this course is based on Adams's Science of Finance; a number of lectures are also given, and references are made to standard authorities. *Twice a week.*]

Course III. is elective for those who have taken Course I. It is omitted the present year.

[IV. 1. MONEY AND BANKING. A course on the general principles and history of monetary and banking institutions, on the social and industrial aspects of the present monetary situation, and on the various schemes for reform. 2. THE TRUST PROBLEM. A discussion of industrial combinations, their causes, methods, and effects, and the means of social control. 3. THE TARIFF. A study of the theory of protective customs duties and of the history of tariffs in America. *Twice a week.*]

Course IV. is elective for those who have taken Course I. It is omitted the present year.

V. THE GENERAL LABOR PROBLEM. A course of lectures on the nature, causes, and justification of the present social discontent, and on such suggested remedies as moral elevation, charity, education, provident institutions, labor organizations, strikes, conciliation and arbitration, labor legislation, improved wage systems, profit-sharing, coöperation, nationalization of the land, socialism, communism, anarchism. *Tu., Th., at 11.* 12 F. H. (X.)

Course V. is elective for those who have taken Course I. It is given in alternate years with Course IV.

VI. SOCIOLOGY. A discussion of the principles of social organization and the conditions and forms of social progress, with an examination of the sociological functions of the fundamental institutions of the family, the state, property, and religion. *Mon., Wed., at 12.* 12 F. H. (V.)

Course VI. is elective for those who have taken, or are taking, Course I. It is given in alternate years with Course VII.

[VII. SOCIAL SCIENCE. An examination of certain concrete social problems of the present:—pauperism and charity; the defective and criminal classes. The class-room work is supplemented by visits to several of the charitable, penal, and reformatory institutions in and about Middletown. *Twice a week.*]

Course VII. is elective for those who have taken, or are taking, Course I. It is omitted the present year.

* VIII. ECONOMIC SEMINARY. Each member of the seminary takes for private individual investigation, under the direction of the instructor, some problem in economics, finance, statistics, or social science, and week by week reports in class on progress made and obstacles met. At the close of the year the work is brought together

in a final report or thesis. For the current year the topics are related to the general labor problem, as discussed in Course V. *Mon., 7-10 p. m. (first and second terms), counting as two hours for the year.* 10 F. H.

Course VIII. is elective, with the permission of the instructor, for those who, having received first or second grade in Course I., take any two of Courses III.-VII.

It will be noted that in each of the college classes certain courses cannot be taken at all except by such students as take Course I. in the Sophomore year. Hence a student in an odd numbered class who wishes to take Courses III. and IV., must qualify himself to take them in his Junior year by taking Course I. in his Sophomore year; and similarly a student in an even-numbered class can take Courses II. and V. only by taking Course I. in his Sophomore year. It should be noted, however, that Course I. may be taken in the Sophomore year only with the permission of the instructor.

GRADUATE INSTRUCTION.

Course VIII. is intended primarily for graduate students, but is open also to such undergraduates as are making special studies in the department. Courses II.-VII., while intended primarily for undergraduates, may also be taken with advantage by graduates who have studied only the principles of economic science.

PHILOSOPHY.

PROFESSORS ARMSTRONG AND DODGE.

I.² LOGIC. Jevons-Hill's Elements of Logic. An elementary course in the fundamental forms of reasoned thinking, deductive and inductive alike. The study of the text-book is illustrated by numerous examples in logical praxis. SECTION I, *Tu., Th., at 8*; SECTION 2, *Tu., Th., at 10 (second half-year).* 28 F. H. PROFESSOR DODGE. (IX.)

Course I. is required of Sophomores.

II.¹ PSYCHOLOGY. Sully's Outlines of Psychology, with references to other authorities. Lectures and discussions are used to supplement the text-book. These are introduced especially in explanation

of the more recent psychological investigations and of positions still under debate. *Mon., Wed., Fri., at 10 (first half-year)*. 28 F. H. PROFESSOR ARMSTRONG. (III.)

Course II. is required of Juniors.

III. PHYSIOLOGICAL AND EXPERIMENTAL PSYCHOLOGY. Ladd's Outlines of Physiological Psychology. The course begins with a discussion of the physical basis of mind, but more than half of the time is devoted to the study of the chief experimental methods and results. Lectures and experimental demonstrations supplement the study of the text-book. *Mon., Wed., at 3*. 22 F. H. PROFESSOR DODGE. (VI.)

Course III. is elective for Juniors.

IV.¹ ADVANCED LOGIC. Hibben's Inductive Logic. The course opens with several lectures on the history of logic. Special attention is given to the discussion of the principles of induction and scientific method and to the criticism of concrete cases of scientific inference. *Tu., Th., at 11 (first half-year)*. 24 F. H. PROFESSOR DODGE. (X.)

Course IV. is elective for Juniors.

V.² INTRODUCTION TO PHILOSOPHY. Lectures and recitations, with references to the Introductions of Stuckenberg, Ladd, Külpe, and Paulsen. The course is planned to meet the needs of students who seek instruction in the encyclopedia and the outlines of philosophy, as well as of students who intend to specialize in the department. *Tu., Th., at 11 (second half-year)*. 24 F. H. PROFESSOR ARMSTRONG. (X.)

Course V. is elective for Juniors.

VI.² ANCIENT AND MEDIAEVAL PHILOSOPHY. Zeller's Outlines of Greek Philosophy, with references to Schwegler, Zeller's larger work, and other authorities; lectures and discussions. *Wed., Fri., at 10 (second half-year)*. 28 F. H. PROFESSOR ARMSTRONG. (III.)

Course VI. is elective for Juniors.

VII.¹ MODERN PHILOSOPHY FROM THE RENAISSANCE TO KANT. Falckenberg's History of Modern Philosophy; lectures, recitations, discussions, and references to other standard histories of philosophy. *Tu., Th., at 3 (first half-year)*. 28 F. H. PROFESSOR ARMSTRONG. (XII.)

Course VII. is elective, under ordinary circumstances, for those who have taken Course VI.

VIII.² MODERN PHILOSOPHY FROM KANT TO THE PRESENT TIME. Falckenberg's History of Modern Philosophy; lectures, recitations, discussions, and references to other authorities. *Tu., Th., at 3 (second half-year)*. 28 F. H. PROFESSOR ARMSTRONG. (XII.)

Course VIII. is elective for those who have taken Course VII.

IX. ADVANCED PSYCHOLOGY. The object of this course is the discussion of important selected topics. The views of leading thinkers are presented in lectures and in formal reports by members of the class. The topics for the current year are taken from the psychology of the emotions and the will, with special reference to the psychology of religion. *Mon., at 10*. 22 F. H. PROFESSOR DODGE. (III.)

Course IX. is elective, under ordinary circumstances, for those who have received not lower than grade two in Course II.

* X. LABORATORY COURSE IN PSYCHOLOGY. Experimental study of special problems. *Fri., 2-4, counting as one hour for the year*. 20 F. H. PROFESSOR DODGE. (VI.)

Course X. is elective, with the permission of the instructor, for those who have taken Courses II. and III.

XI.¹ READINGS IN MODERN PHILOSOPHY. In this course representative works of leading thinkers of the first half of the modern period are read and discussed. Special attention is given to selections from the works of Descartes, Locke, Berkeley, and Hume. *Mon., Wed., Fri., at 11 (first half-year)*. 24 F. H. PROFESSOR ARMSTRONG. (IV.)

Course XI. is elective for those who are taking Course VII.

XII.² METAPHYSICS. Selections from Kant's works and Lotze's Metaphysics. Class readings and discussions. Topical reports and theses may also be required. *Mon., Wed., at 11 (second half-year)*. 24 F. H. PROFESSOR ARMSTRONG. (IV.)

Course XII. is elective for those who are taking Course VIII.

GRADUATE INSTRUCTION.

Courses IX.-XII. are intended for advanced undergraduates and graduates. Special courses for graduate students, under the direction of the instructors of the department, may be arranged in advanced experimental and analytical psychology, in historical philosophy and systematic philosophy.

ETHICS AND RELIGION.

PRESIDENT RAYMOND; PROFESSORS RICE AND DODGE.

I.¹ ETHICS. A course of lectures and recitations on theoretical and practical ethics. The course is introduced with an historical survey of ethical theory, and the lectures are supplemented by theses and collateral reading. Seth's Study of Ethical Principles is used as a text-book. *Wed., Fri., at 10 (first half-year)*. 15 F. H. PROFESSOR DODGE. (III.)

Course I. is required of Seniors.

II.² EVIDENCES OF CHRISTIANITY. Recitations and lectures, Fisher's Grounds of Theistic and Christian Belief being used as a text-book. *Wed., Fri., at 10 (second half-year)*. 15 F. H. PRESIDENT RAYMOND. (III.)

Course II. is required of Seniors.

*III.² THEISM. Instruction is given by lectures, supplemented by collateral readings and class discussions. The purpose of the course is to discover essential religious phenomena, to test the various historic theories offered in explanation of these phenomena, and to find a philosophic basis for faith. *Twice a week (second half-year), the hours to be determined hereafter*. PRESIDENT RAYMOND.

Course III. is elective, with the permission of the instructor, for those who have taken Courses I., II., V., and VII. in philosophy.

[IV.² RELATIONS OF SCIENCE AND RELIGION. Lectures and recitations on the history of important advances in scientific thought and their bearing upon theistic and Christian belief. The heliocentric astronomy, the antiquity of the earth and of man, the theory of evolution, and the correlation of physical and vital forces, are among the topics discussed. Rice's Christian Faith in an Age of Science is used as a text-book. *Twice a week (second half-year)*. PROFESSOR RICE.]

Course IV. is elective for Juniors. It is omitted the present year.

MATHEMATICS AND ASTRONOMY.

PROFESSORS J. M. VAN VLECK AND E. B. VAN VLECK; MR. CAMP.

I. SOLID GEOMETRY. Phillips and Fisher's Elements of Geometry. *First third of the year*.

PLANE TRIGONOMETRY. *Second third of the year.*

ANALYTICAL GEOMETRY. *Last third of the year.* SECTION 1, *Mon., Tu., Th., Fri., at 9;* SECTION 3, *Mon., Tu., Th., Fri., at 12.* MR. CAMP. SECTION 2, *Mon., Tu., Th., Fri., at 10.* PROFESSOR E. B. VAN VLECK. 26 O. H. (V.)

Course I. is required of Classical Freshmen, and of Latin-Scientific and Scientific Freshmen who did not pass in the advanced requirements in mathematics on admission to college.

II. ALGEBRA. Advanced course. *Tu., Th., at 11.* 25 O. H. MR. CAMP. (X.)

Course II. is elective for those who have taken Course I.

[III. TRIGONOMETRY. Advanced course, with applications to problems in surveying and astronomy. *Twice a week.*]

Course III. is elective for those who have taken Course I. It is omitted the present year.

IV. ANALYTICAL GEOMETRY. Advanced course, with an introduction to the theory of determinants. *Wed., Fri., at 11.* 23 O. H. MR. CAMP. (IV.)

Course IV. is elective for those who have taken Course I.

V. DIFFERENTIAL AND INTEGRAL CALCULUS. Elementary course. *Tu., Th., Fri., at 12.* 25 O. H. PROFESSOR E. B. VAN VLECK. (XI.)

Course V. is elective for those who have taken Course I.

Courses II., IV., and V. are necessary for those who purpose to pursue advanced courses in pure mathematics; Course V. for those intending to pursue advanced courses in physics and other branches of applied mathematics.

VI. DIFFERENTIAL EQUATIONS, based on Murray's *Treatise on Differential Equations.* *Tu., Th., at 8.* 25 O. H. PROFESSOR E. B. VAN VLECK. (VII.)

Course VI. is elective for those who have taken Course V.

VII. ANALYTICAL GEOMETRY OF THREE DIMENSIONS, including a study of mathematical models. *Mon., Wed., at 12.* 23 O. H. PROFESSOR E. B. VAN VLECK. (V.)

Course VII. is elective for those who have taken Course IV., and who have taken, or are taking, Course V.

[VIII. PROJECTIVE GEOMETRY. *Twice a week.* PROFESSOR E. B. VAN VLECK.]

Course VIII. is elective for those who have taken either Course IV. or Course V. It is omitted the present year.

IX. CALCULUS. Second course, with a special study of the theory of integrals. *Wed., at 2; Fri., at 8.* 25 O. H. PROFESSOR E. B. VAN VLECK. (I.)

Course IX. is elective for those who have taken Course V.

[X. THEORY OF FUNCTIONS. Elementary course. *Twice a week.* PROFESSOR E. B. VAN VLECK.]

Course X. is elective for those who have taken Course V. It is omitted the present year.

[XI. THEORETICAL MECHANICS. *Twice a week.*]

Course XI. is elective for those who have taken Course V. It is omitted the present year.

[XII. DESCRIPTIVE ASTRONOMY. This course is designed to give a general knowledge of the fundamental facts and principles of astronomy, such a knowledge as may properly constitute a part of a general liberal education. *Twice a week.* PROFESSOR J. M. VAN VLECK.]

Course XII. is elective for those who have taken Course I., and is required of Scientific Sophomores. It is omitted the present year.

*XIII¹. GENERAL ASTRONOMY. The aim of this course is essentially the same as that of Course XII. *Tu., Th., at 10, with practical exercises in the observatory and laboratory, counting as three hours a week (first half-year).* 25 O. H. PROFESSOR J. M. VAN VLECK. (IX.)

Course XIII. is elective, with the permission of the instructor, for those who have taken Course I.

[XIV. SPHERICAL AND PRACTICAL ASTRONOMY, with exercises in the observatory. *Twice a week.* PROFESSOR J. M. VAN VLECK.]

Course XIV. is elective for those who have taken Course V. It is omitted the present year.

PHYSICS.

PROFESSOR CRAWFORD; ASSOCIATE PROFESSOR CADY.

I. ELEMENTARY PHYSICS. A general course, covering the most fundamental laws, and presenting typical phenomena, in the various departments of physics. *Mon., Fri., at 10 (first half-year). Mon., Wed., Fri., at 10 (second half-year).* 34 S. L. PROFESSOR CRAWFORD. (III.)

Course I. is required of Classical Sophomores, and of Latin-Scientific Sophomores and Scientific Freshmen who did not pass in physics on admission to college.

II. ELECTRICITY AND MAGNETISM. Text-book and lectures, together with some experimental work in the laboratory. *Tu., Th., at 11.* 34 S. L. PROFESSOR CADY. (X.)

Course II. is elective for those who have taken, or are taking, Course I., and who have also studied trigonometry.

III. PRACTICAL PHYSICS. An elementary laboratory course parallel with Course I. This course is intended for those who purpose to teach physics, and also as an introductory course for those who expect to take further laboratory work. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (any two of these hours at the discretion of the student).* S. L. PROFESSOR CRAWFORD.

Course III. is elective for those who have taken, or are taking, Course I.

IV. ELECTRICAL MEASUREMENTS. Experimental work in electricity, supplemented by occasional lectures. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* S. L. PROFESSOR CADY.

Course IV. is elective for those who have taken Course II.

Courses III. and IV. are coördinate. With the consent of the instructors, a student may take a half-year of each.

[V¹. SOUND. A course of lectures, with collateral readings and experimental illustrations. *Twice a week (first half-year).* PROFESSOR CRAWFORD.]

Course V. is elective for those who have taken Course I. It is omitted the present year.

[VI². HEAT. A general elementary treatment of the subject. *Twice a week (second half-year).* PROFESSOR CRAWFORD.]

Course VI. is elective for those who have taken Course I. It is omitted the present year.

VII.³ THERMO-DYNAMICS. A continuation of Course VI., with special application to the steam engine. Conducted mainly by lectures, of which an abstract is furnished. *Mon., Wed., Th., at 12 (first half-year).* 40 S. L. PROFESSOR CRAWFORD. (V.)

Course VII. is elective for those who have taken Course I. in physics, and who have taken, or are taking, Course V. in mathematics.

VIII. APPLIED ELECTRICITY. Text-book and lectures. The first half-year is devoted to the theory and construction of direct current dynamos and motors. In the second half-year the subjects studied include electric lighting, storage batteries, electric railways, the telephone, telegraph, Roentgen rays, and other applications of electricity. *Wed., Fri., at 11.* 34 S. L. PROFESSOR CADY. (IV.)

Course VIII. is elective for those who have taken Course II.

IX.^a LIGHT. Selections from Preston's Theory of Light, preceded by lectures on geometrical optics. *Mon., Wed., Th., at 12 (second half year).* 34 S. L. PROFESSOR CRAWFORD. (V.)

Course IX. is elective for those who have taken Course I. in physics, and who have taken, or are taking, Course V. in mathematics.

X. PRACTICAL PHYSICS. A continuation of Course III., consisting of exact measurements in mechanics, heat, sound, and light, and involving such work as the use of the reversion pendulum, the determination of coefficients of elasticity, the use of the air thermometer, the determination of wave-lengths of light, indices of refraction, etc. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* S. L. PROFESSOR CRAWFORD.

Course X. is elective for those who have taken Course III.

XI. EXPERIMENTAL ELECTRICITY. A continuation of Course IV. The study and testing of dynamos, motors, and other electrical apparatus forms a large part of the work. Opportunity is afforded for some shop-work and for practical experience in running an engine and dynamos. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* S. L. PROFESSOR CADY.

Course XI. is elective for those who have taken Courses IV. and VIII.

[XII. THEORETICAL ELECTRICITY. This course is based on J. J. Thomson's Mathematical Theory of Electricity and Magnetism. *Twice a week.* PROFESSOR CADY.]

Course XII. is elective for those who have taken Course II. in physics and who have taken, or are taking, Course V. in mathematics. It is omitted the present year.

XIII. ALTERNATING CURRENTS. Text-book and lectures, supplemented by experiments. *Wed., Fri., at 9.* 40 S. L. PROFESSOR CADY. (II.)

Course XIII. is elective for those who have taken Course VIII. in physics and Course V. in mathematics.

XIV. ADVANCED EXPERIMENTAL ELECTRICITY. A continuation of Course XI. Opportunity is afforded for extended investigation of problems connected with alternating currents, and also for the experimental study of other important problems in electricity. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* S. L. PROFESSOR CADY.

Course XIV. is elective for those who have taken Course XI. and either Course XII. or Course XIII.

XV. JOURNAL MEETING. The instructors of the department meet the graduate students and advanced undergraduates for the purpose of reporting and discussing articles from the current journals of general physics and electricity. *Th., at 5.* 40 S. L. PROFESSORS CRAWFORD AND CADY.

XVI. ERRORS OF OBSERVATION AND THE METHOD OF LEAST SQUARES, as applied in the solution of physical problems. This course consists chiefly of reading, supplemented by frequent meetings with the instructor. It forms the equivalent of a one-hour course. S. L. PROFESSOR CADY.

Course XVI. is elective for those who have taken Course II. in physics and Course V. in mathematics.

CHEMISTRY.

PROFESSORS ATWATER AND BRADLEY; ASSOCIATE PROFESSOR BENEDICT.

I.¹ ELEMENTARY CHEMISTRY. This course is devoted to the elementary principles of the science. Each student performs a considerable number of experiments in the laboratory. *Tu., Wed., Th., at 10 (first half-year).* 3 J. H. PROFESSORS ATWATER AND BRADLEY. (IX.)

Course I. is required of Classical Sophomores, and of Latin-Scientific Sophomores and Scientific Freshmen who did not pass in chemistry on admission to college.

II.² ADVANCED ELEMENTARY CHEMISTRY. Lectures on the general principles and some of the applications of chemistry. It is supplementary to Course I. *Tu., Th., at 10 (second half-year).* 3 J. H. PROFESSOR ATWATER. (IX.)

Course II. is elective for those who have taken Course I.

III. QUALITATIVE ANALYSIS. A laboratory course in basic, acid, and blow-pipe analysis. Lectures are given on the chemical problems involved in the detection of the more common metals. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (three exercises a week)*. CHEM. LAB. PROFESSOR BRADLEY.

Course III. is elective for those who have taken Courses I. and II.

*IV. PRINCIPLES OF GENERAL AND ANALYTICAL CHEMISTRY. A laboratory course, involving a study of the properties and reactions of typical elements and compounds, based upon the periodic classification of the elements. Experimental demonstration of chemical laws and especially of the principles of analysis. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (three exercises a week)*. CHEM. LAB. PROFESSOR BENEDICT.

Course IV. is elective, with the permission of the instructor, for those who have taken Courses I. and II.

V.² LIQUEFACTION OF GASES. Lectures, with experimental demonstrations, upon the history and theory of the liquefaction of gases, and upon some of the more important results of research at low temperatures. *Tu., Th., at 8 (second half-year)*. 3 J. H. PROFESSOR BRADLEY. (VII.)

Course V. is elective for those who have taken Course I.

*VI. QUANTITATIVE ANALYSIS. A laboratory course in gravimetric and volumetric analysis. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two exercises a week)*. CHEM. LAB. PROFESSORS ATWATER AND BENEDICT.

Course VI. is elective, with the permission of the instructors, for those who have taken Course II. and either Course III. or Course IV.

VII. ORGANIC CHEMISTRY. Lectures and recitations. The principles of organic chemistry as illustrated by the derivatives of methane and benzene. *Mon., Wed., Fri., at 8*. 3 J. H. PROFESSOR BRADLEY. (I.)

Course VII. is elective for those who have taken either Course III. or Course IV.

VIII.¹ PHYSIOLOGICAL CHEMISTRY. Lectures on selected chapters of physiological chemistry. Especial attention is given to the chemistry of the animal body. *Tu., Th., at 11 (first half-year)*. 3 J. H. PROFESSOR ATWATER. (X.)

Course VIII. is elective for those who have taken Course II. It is desirable that those who elect it should also elect Course VII.

*IX. ORGANIC CHEMISTRY. A laboratory course devoted to the preparation of compounds of carbon. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two exercises a week)*. CHEM. LAB. PROFESSOR BRADLEY.

Course IX. is elective, with the permission of the instructor, for those who have taken, or are taking, Course VII.

*X. PHYSIOLOGICAL CHEMISTRY. A laboratory course in the preparation of compounds and in methods of analysis of interest in physiological chemistry. Each exercise occupies $2\frac{1}{2}$ hours. *Mon., Wed., Fri., at 2 (two or three exercises a week)*. CHEM. LAB. PROFESSORS ATWATER AND BENEDICT.

Course X. is elective, with the permission of the instructors, for those who have taken, or are taking, Courses VI., VII., and VIII.

Courses VIII. and X. are recommended to those who purpose to study medicine.

XI. THEORETICAL CHEMISTRY. Lectures upon the origin, development, and present status of the theory of the atom and molecule. *Mon., Fri., at 9*. 3 J. H. PROFESSOR BRADLEY. (II.)

Course XI. is elective for those who have taken either Course III. or Course IV.

*XII. CHEMICAL SEMINARY. A course of lectures and conferences on biological chemistry. *Tu., at 2; Th., at 7 p. m.* 3 J. H. PROFESSOR ATWATER.

*Course XII. is elective, with the permission of the instructor, for those who have taken, or are taking, Courses VII. and VIII.

GRADUATE INSTRUCTION.

Course XII., although elective for undergraduates, is designed chiefly for graduates.

Laboratory courses of research in physical, physiological, and organic chemistry may be arranged.

GEOLOGY.

PROFESSOR RICE.

I.¹ PHYSICAL GEOGRAPHY. Recitations and lectures, with Tarr's Elementary Physical Geography as a text-book. *Tu., Th., at 3 (first half-year)*. 8 J. H. (XII.)

Course I. is elective for Classical Sophomores, and is required of Latin-Scientific and Scientific Freshmen who did not pass in physical geography on admission to college.

II. GEOLOGY. Elementary course. A course of lectures, chiefly on dynamical and structural geology. Dana's Revised Text-book of Geology is recommended for reference. *Tu., Th., at 12.* 8 J. H. (XI.)

Course II. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores.

III.¹ GEOLOGY. Advanced course in structural and dynamical geology. Recitations and lectures, with Le Conte's Elements of Geology, and Dana's Revised Text-book of Geology, as text-books. Excursions on Saturdays during the fall. The phenomena observed in an excursion are discussed at the next meeting of the class, one of the members of the class often giving a report or lecture thereon. *Mon., Wed., Fri., at 12 (first half-year), counting as four hours a week.* 8 J. H. (V.)

Course III. is elective for those who have taken Course II. It is desirable, however, that those who take this course should also have taken the course in physical geography, and should take, or have taken, the course in mineralogy.

IV.² GEOLOGY. Historical geology and paleontology. Recitations and lectures, with same text-books as in Course III. Excursions on Saturdays during the spring term (required only of those who take also Course III.). *Mon., Wed., Fri., at 12 (second half-year), counting as four hours a week for those who take also Course III.* 8 J. H. (V.)

Course IV. is elective for those who have taken Course II. It is *very desirable*, however, that those who take this course should also have taken the courses in zoölogy and botany.

V.³ MINERALOGY. Crystallography and optical mineralogy. Lectures and practical exercises. Dana's Text-book of Mineralogy is used for reference. *Tu., Th., at 10; Wed., at 2 (first half-year).* 8 J. H. (IX.)

Course V. is elective for Classical and Latin-Scientific Juniors and Scientific Sophomores.

VI.⁴ MINERALOGY. Determinative and descriptive mineralogy. Laboratory work in determinative mineralogy, lectures on descriptive

mineralogy. Brush and Penfield's Manual of Determinative Mineralogy, and Dana's Text-book of Mineralogy, are used for reference. *Tu., Th., at 10; Wed., at 2 (second half-year).* 8 J. H. (IX.)

Course VI. is elective for those who have taken Course V.

GRADUATE INSTRUCTION.

Courses III., IV., V., and VI., although intended primarily for undergraduates, have often been taken by graduate students.

Additional work is provided for graduate students. This may include courses of reading in various branches of geological science, field work, or laboratory work in mineralogy and lithology.

BIOLOGY.

PROFESSOR CONN.

I.¹ GENERAL BIOLOGY. This course is devoted to the study of the simpler laws of life, and the relations of animals and plants. Practical study is made of the earthworm, the frog, and some common plants, which are used as illustrating the general structure and physiology of animals and plants. This course is largely laboratory work and is designed as an introduction to the study of botany, zoölogy, and physiology. *Mon., Wed., 2-4 (first half-year), counting as one hour for the year.* 8 J. H. (VI.)

Course I. is elective for Classical Sophomores, and is required of Latin-Scientific and Scientific Freshmen.

II.² BOTANY. This course is a continuation of Course I., and consists of lectures and recitations, and of a large amount of practical work. It includes the study of physiological, morphological, structural, and microscopic botany. The course is chiefly devoted to the study of cryptogams, but this is followed by a short study of phanogams. The last four weeks are devoted to the analysis and description of flowers. *Mon., Wed., 2-4 (second half-year), counting as one hour for the year.* 8 J. H. (VI.)

Course II. is elective for Classical Sophomores, and is required of Latin-Scientific and Scientific Freshmen who did not pass in botany on admission to college.

III. ZOOLOGY. Lectures and recitations. Colton's Zoölogy, Descriptive and Practical, is used as a text-book. Typical examples, illustrating the various groups of the animal kingdom, are studied, attention being given rather to the general laws governing living beings than to the systematic classification of species. The course includes the embryology of the various forms studied, as well as their adult anatomy. The last term is devoted to the study of comparative anatomy and general zoölogical problems. *Mon., Wed., Fri., at 9.*
8 J. H. (II.)

Course III. is elective for Classical Juniors and for Latin-Scientific and Scientific Sophomores.

IV. PHYSIOLOGY. The instruction is given chiefly by lectures, Martin's Human Body being used as a text-book. Enough anatomy is given to render the physiological discussions intelligible, and enough hygiene to guide to an intelligent care of the body. *Mon., Wed., at 8.*
8 J. H. (I.)

Course IV. is elective for Classical and Latin-Scientific Juniors, and is required of Scientific Sophomores.

*V. PRACTICAL BIOLOGY. The design of the courses in practical biology is to furnish opportunity for special biological work along such lines as may be best adapted to the future plans of the student. Those intending to study medicine devote their attention largely to the study of animals, including the dissection of some mammal. Those desiring a more general course make a brief examination of various groups of the animal and vegetable kingdom.

Those electing the study for more than one year, spend the first year in the study of biology in general, making a careful study of illustrative types of the different groups of the animal and vegetable kingdoms, such as amœba, infusoria, hydra, earthworm, bacteria, yeast, mold, lichens, mosses, flowering plant, etc. The laboratory work is planned to illustrate, as far as possible, the principles of biology, comparative anatomy, and embryology. Each exercise occupies 2½ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).*
BIOL. LAB.

Course V. is elective, with the permission of the instructor, for Sophomores.

VI. PRACTICAL BIOLOGY. The second year in practical biology is devoted to the study of histology, bacteriology, embryology, and mammalian anatomy. During the second half-year each student may

pursue some special work assigned by the instructor. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* BIOL. LAB.

Course VI. is elective for those who have taken Course V.

VII. PRACTICAL BIOLOGY. A course in laboratory work in continuation of Course VI. Each exercise occupies $2\frac{1}{2}$ hours. *Tu., Wed., Th., at 2 (two or three exercises a week).* BIOL. LAB.

Course VII. is elective for those who have taken Course VI.

Courses V.-VII. are accompanied by lectures and recitations. The outline of the courses is somewhat variable and is determined according to the purposes and needs of each student.

VIII.¹ EVOLUTION. A course of lectures and recitations, giving an outline of the general theory of evolution. Conn's *The Method of Evolution* is used as a text-book. *Tu., Th., at 8 (first half-year).* 8 J. H. (VII.)

Course VIII. is elective for Juniors.

[IX.¹ BACTERIOLOGY. Conn's *Agricultural Bacteriology* is used as a text-book, and is supplemented by lectures on pathological bacteriology, special attention being given to sanitary problems. *Twice a week (first half-year).*]

Course IX. is elective for Juniors. Courses VIII. and IX. are given in alternate years, Course IX. being omitted the present year.



EXAMINATION GROUPS.

No student is allowed to take more than one course in any of these groups, with the exception of those (bracketed together) which are not given in the same half-year. The following courses are not assigned to any group, and they may be elected without limitation: IV. Latin; III. Greek; III., IV. German; Debate; VI. History; II., VIII. Economics; Theism; III., IV., X., XI., XIV., XV., XVI. Physics; III., IV., VI., IX., X., XII. Chemistry; V., VI., VII. Biology.

I.—*M., W., F., at 8.*

IV. Greek.

I. German.

Advanced Italian, *M., W.*

*Dante in English, *F.*

IV. History.

IX. Mathematics, *F., also W.*
at 2.

VII. Chemistry.

Physiology, *M., W.*

II.—*M., W., F., at 9.*

I. Latin, *also Th.*

XVI. Latin, *W., F.*

II. English Literature.

XIII. Physics, *W., F.*

XI. Chemistry, *M., F.*

Zoology.

III.—*M., W., F., at 10.*

I. Greek, *T., W., Th., F.*

{ Psychology.

{ VI. Philosophy, *W., F.*

IX. Philosophy, *M.*

III.—*M., W., F., at 10.*

{ Ethics, *W., F.*

{ Evidences, *W., F.*

I. Physics.

IV.—*M., W., F., at 11.*

II. German.

II. French.

IV. English Literature, *M., W.*

† VII. English Literature, *F.*

{ XI. Philosophy.

{ XII. Philosophy, *M., W.*

IV. Mathematics, *W., F.*

VIII. Physics, *W., F.*

V.—*M., W., F., at 12.*

{ XVIII. Latin, *W., F.*

{ XIX. Latin, *W., F.*

I. English Literature, *M., W.*

VI. Economics, *M., W.*

I. Mathematics, *M., T., Th., F.*

VII. Mathematics, *M., W.*

{ VII. Physics, *M., W., Th.*

{ IX. Physics, *M., W., Th.*

{ III. Geology.

{ IV. Geology.

* May be elected with Advanced Italian.

† May be elected with IV. English Literature.

VI.—*M., W., F., at 3.*VIII. Greek, *M., W.*

I. French.

VI. English Language, *W., F.*III. Philosophy, *M., W.*X. Philosophy, *F.*{ General Biology, *M., W.*{ Botany, *M., W.***VII.—*T., Th., at 8.***VI. French, *T., also Th. at 4.*

Spanish.

IX. English Language.

I. History.

VI. Mathematics.

V. Chemistry.

Evolution.

VIII.—*T., Th., at 9.*

{ II. Latin.

{ III. Latin.

I. English Language, *T., also
M. at 8 and 9.*

I. Economics.

IX.—*T., Th., at 10.*

{ VIII. Latin.

{ XIV. Latin.

IV. French.

{ Logic.

{ Astronomy.

{ I. Chemistry, *also W.*

{ II. Chemistry.

Mineralogy, *also W. at 2.***X.—*T., Th., at 11.***

V. Latin.

II. Greek.

VIII. German.

V. Economics.

{ IV. Philosophy.

{ V. Philosophy.

II. Mathematics.

II. Physics.

VIII. Chemistry.

XI.—*T., Th., at 12.*

XIII. Latin.

V. German, *also F.*

III. French.

III. History, *also F.*V. Mathematics, *also F.*

II. Geology.

XII.—*T., Th., at 3.*

Linguistics.

{ VI. German.

{ VII. German.

{ III. English Language.

{ IV. English Language.

{ VII. Philosophy.

{ VIII. Philosophy.

Physical Geography.

SELECTION OF STUDIES.

The studies which are required of students in the respective classes and courses are indicated below. In addition to these, each student of the three upper classes is required to elect such a number of studies that his *average* number of recitations and lectures a week for the year, exclusive of rhetorical exercises, shall be not less than 14 nor more than 17. The minimum requirement for Freshmen is 15 recitations and lectures a week for the year, the maximum is 17. Elections must be made in accordance with the restrictions specified in the description of the respective courses in the foregoing statement of the courses of instruction. *No student is allowed to take more than one course in any examination group (see pages 67, 68), with the exception of those which are not given in the same half-year.*

SCHEDULE OF REQUIRED STUDIES.

N. B.—The numbers in *italics* indicate the average number of hours a week for the year.

CLASSICAL COURSE.

FRESHMEN:—I. Latin, 4; I. Greek, 4; I. Mathematics, 4; I. English Language, 2; I. German, or I. French, 3.

SOPHOMORES:—Logic, 1; I. Physics, 2½; I. Chemistry, 1½.

JUNIORS:—Psychology, 1½; I. Economics, 2. (I. Economics may be postponed to the Senior year, or may be taken, with the permission of the instructor, in the Sophomore year.)

SENIORS:—Ethics, 1; Evidences of Christianity, 1.

LATIN-SCIENTIFIC COURSE.

FRESHMEN:—I. Latin, 4; I. Mathematics, 4; I. English Language, 2; Physical Geography, General Biology, and Botany, 3; I. or II. French, or I. or II. German, 3. (See page 45.)

SOPHOMORES:—Logic, 1; I. Physics, 2½; I. Chemistry, 1½.

For such part of the courses in science or modern languages above named as students may have passed in at entrance, they are allowed to substitute enough elective work to fill out the required quota of exercises a week.

JUNIORS:—Psychology, 1½; I. Economics, 2. (See requirements for classical course.)

SENIORS:—Ethics, 1; Evidences of Christianity, 1.

SCIENTIFIC COURSE.

FRESHMEN:—Not less than fifteen hours a week of the following courses: I. Mathematics, 4; I. English Language, 2; I. German, 3, and II. French, 3, or II. German, 3, and I. French, 3 (see page 45); I. Physics, 2½; I. Chemistry, 1½; Physical Geography, General Biology, and Botany, 3.

For such of these studies as students may have passed in at entrance, they are allowed to substitute elective work.

SOPHOMORES:—II. German, 3, or II. French, 3 (see page 45); Logic, 1; Astronomy, 2; Geology, 2; Physiology, 2.

JUNIORS:—Psychology, 1½; I. Economics, 2. (See requirements for classical course.)

SENIORS:—Ethics, 1; Evidences of Christianity, 1.

In addition to the courses indicated in the foregoing statement, exercises in English composition are required of Freshmen, Sophomores and Juniors, and exercises either in English composition or in public speaking of Seniors. (See pages 46 and 47.)

DAILY PROGRAM.



The order of lectures and recitations is set forth in the table given on pages 72 and 73. Roman numerals preceding the names of certain studies refer to the numbers of the courses as enumerated in the foregoing statement of courses of instruction. Arabic numerals, following the names of certain studies, indicate the sections into which the classes are divided.



<p> I. Latin, 2. II. German. III. French. IV. English Literature. XI. Philosophy (1st half). </p>	<p> I. Latin, 2. II. Greek. VIII. German (2d half). V. Economics. IV. Philosophy (1st half). </p>	<p> I. Latin, 2. II. German. IV. English Literature. XI. Philosophy (1st half). </p>	<p> I. Latin, 2. II. Greek. VIII. German (2d half). V. Economics. IV. Philosophy (1st half). </p>	<p> I. Latin, 2. II. German. IV. English Literature. XI. Philosophy (1st half). </p>	<p> I. Latin, 2. II. German. VII. English Literature. XI. Philosophy (1st half). </p>
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3.	VIII. Greek (2d half). I. French, 2. II. Philosophy. III. IV., VI., IX., X. Chemistry. General Biology (1st half). Botany (2d half).	Linguistics (2d half). VI. German (1st half). VII. English Lang. (1st half). VIII. Philosophy (1st half). III. IV., X., XI., XIV. Physics.	VIII. Greek (2d half). I. French, 2. VI. Philosophy. III. IV., X., XI., XIV. Physics. III. IV., VI., IX., X. Chemistry. General Biology (1st half). Botany (2d half). V., VI., VII. Biology.	Linguistics (2d half). VI. German (2d half). VII. English Lang. (2d half). VIII. Philosophy (2d half). III. IV., X., XI., XIV. Physics. Physical Geog. (1st half). V., VI., VII. Biology.	IV. Latin. I. French, 2. VI. English Language. X. Philosophy. III., IV., VI., IX., X., Chemistry.
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GENERAL REGULATIONS.*

QUOTA OF STUDIES.

For students of the three upper classes, the quota of regular studies is not less than fourteen hours nor more than seventeen hours of class-room work a week, exclusive of rhetorical exercises. The quota for Freshmen (see pages 69 and 70) varies from fifteen to seventeen hours of class-room work a week. No student is allowed to take less than fourteen hours nor more than seventeen hours of work a week without special permission from the Faculty.

GRADES.

The general character of the work of each student in each study is indicated by his assignment to one of five grades, grade 1 denoting the highest excellence, and grade 5, failure to pass. The Secretary of the Faculty sends to each student, within three weeks after Commencement, a report of his grades in all the studies which he has taken during the year.

EXAMINATIONS.

Regular examinations are held at the end of the college year, and during a specified period in February. No student who has been absent from fifteen per cent. or more of the required exercises in any study can be admitted to examination in that study, except by special permission from the Faculty. Such permission may be accorded when the Faculty are convinced that the absences have not been due to culpable negligence. In the application of this rule, absences from the first or the last exercise of a term in any study, or consecutive absences including the first or the last exercise, are each reckoned as two absences. Absences of the same nature before or after the Thanksgiving recess are each reckoned as two absences.

* Copies of the detailed Regulations may be obtained from the Secretary

To students who, for any reason, have not passed at a regular examination, opportunities for special examinations are given at specified times. A student who fails to pass a final examination in any study before that study is taken up by the next succeeding class, is required, unless specially excused therefrom, to recite with that class. If, at the close of the special examinations held at the beginning of the year, a student is deficient by an amount equivalent to six or more hours of work a week for a year, he is ranked with the next lower class, unless specially excused therefrom by the Faculty.

ENTRANCE CONDITIONS.

A student who fails to make up entrance conditions before the first day of November of the next college year, is excluded from all recitations until the conditions are made up.

PUBLIC WORSHIP.

Devotional services, at which the attendance of students is required, are held in Memorial Chapel every morning.

Church attendance is not required, but students are recommended to become regular attendants at some one of the churches in the city.

Voluntary religious services under the direction of the Young Men's Christian Association are held weekly.

ATHLETIC AND MUSICAL ORGANIZATIONS.

No member of the Senior or Junior class who is deficient in his college work more than two hours a week for a year, and no member of the Sophomore class who is deficient more than three hours a week for a year, is allowed to take part, as a member of a University athletic team, in any athletic contest, except by special permission; and any student whose college work becomes unsatisfactory at any time during the year may be debarred from taking part in such a contest.

Members of the college musical organizations, who are deficient as specified in the preceding paragraph, are not allowed to appear in public concerts given by those organizations.

No student under censure is allowed to serve, without permission of the Faculty, in any capacity on an athletic organization or on a musical association giving public concerts.

LEAVE OF ABSENCE.

A student who desires excuse from college exercises on account of absence from town must apply to the President for permission to be absent, and, unless the circumstances of the case render it impracticable, such permission must be obtained before the student's departure.

EXPENSES.

The annual charges in the Treasurer's bill are as follows:—

Tuition,	- - - - -	\$75 00
Rent and care of half-room, unfurnished, from \$18		
to \$40; average,	- - - - -	29 00
Steam heat; average for half-room,	- - - - -	8 00
Incidentals (lighting, heating, and care of public		
rooms, gymnasium fee, etc.),	- - - - -	27 00
Use of library and reading-rooms,	- - - - -	6 00
Total,	- - - - -	\$145 00

For the laboratory courses in physics, chemistry, and biology, fees are charged, which vary with the nature of the course and with the number of exercises elected per week. The fee for each exercise per week in practical physics, in practical biology, and in III., IV., and X. Chemistry, is five dollars; in VI. Chemistry, eight dollars; and in IX. Chemistry, ten dollars. In the chemical courses named, a moderate additional charge is made for breakage.

Women students must reside in the Women's Hall unless they live in their own homes in the city. Those residing in the Women's Hall are charged at the rate of five dollars and a half a week for board and room-rent. Those residing in the city are charged two dollars a term for the use of the study-room in the Women's Hall.

A diploma fee of five dollars is charged to each student at graduation.

A diploma fee of ten dollars is charged to each graduate student upon promotion to the Master's degree.

The college bills are payable at the commencement of each term; a rebate of one dollar is made on all college bills that are paid on or before the day appointed. Unless the bill for any term is paid, or payment thereof guaranteed, before the commencement of the following term, the student is liable to exclusion from recitations.

No student can have an honorable dismissal, or certificate of progress in his studies, until his bills are paid or payment thereof guaranteed.

A student who is absent from college on account of sickness, or for other cause, and who retains his place in his class, must pay the full college bills during his absence.

The rooms in the college buildings are rented to students during term time only, and must be vacated at the close of the third term. Students are held accountable for any damage done to their rooms. During the summer vacation the rooms are put in order, and the expense charged to the occupants.

Male students are permitted to take lodgings in town, but the places in which they room or board are in all cases subject to the approval of the Faculty. If any of the rooms in the college are thus left vacant, the rent of such rooms may be charged to holders of free scholarships who room in town.

Board may be obtained in private families at prices varying from \$3.75 to \$5.00 a week. The college fraternities maintain clubs which supply board to their members at prices ranging from \$3.00 to \$4.00 a week. The price of board at the college commons is \$2.35 a week.

Other expenses incident to college life vary with the habits and circumstances of the student. They are not, of necessity, so great as to be burdensome to persons in moderate circumstances. The instances have been extremely rare in which students of good ability and health have been compelled to leave the college for want of money.

THE COMMONS.

In order to reduce the expense of a college course, the college maintains a commons, where board may be obtained at a low rate. The dining hall affords accommodation for about one hundred boarders. The upper rooms of the house are rented unfurnished for dormitory purposes, at lower rates than the rooms in North College.

The members of the commons have organized a social and literary club, which meets once a week and gives some attention to debate and to various literary exercises.

The college is responsible for the general management of the commons, the details being in charge of a matron who is responsible to a college officer. Bills are paid into the college treasury, and the college assumes all financial responsibility. The rate of board has been fixed at two dollars and thirty-five cents a week.



MATERIAL EQUIPMENT.

NEW BUILDINGS.

WILLBUR FISK HALL, opened in the summer of 1904, is occupied by the Departments of Language, Literature, History, Economics, and Philosophy. It is of Portland brown-stone and practically fire-proof, 113 by 62 feet in dimensions, three stories in height above a lofty and well-lighted basement story, and cost one hundred and fourteen thousand dollars. It contains ten private studies for professors in charge of departments, fourteen lecture rooms, seven commodious seminary rooms, and a well-appointed psychological laboratory.

In the planning and construction of the building careful attention was paid to matters of heating, lighting, ventilation and drainage. It is believed that in dignity of external appearance, interior finish, convenience of arrangement, and adaptation at all points to the uses for which it is designed, it is a model college building.

THE JOHN BELL SCOTT MEMORIAL, a new Physical Laboratory, has just been completed at a cost of one hundred and eighteen thousand dollars. It is the gift of the late Charles Scott and of his son, Charles Scott, of the class of 1886, in memory of John Bell Scott, of the class of 1881, who died of disease contracted while serving as Chaplain of the U. S. Cruiser *St. Paul* during the Spanish-American war.

It is a beautiful and imposing building constructed of Harvard brick and Indiana limestone. Its main part has a frontage of 102 feet and a depth of 51 feet, and in the rear is an extension 50 by 30 feet. The building consists of basement, three stories, and attic, except that the third story is omitted in the extension. The main lecture room contains nearly two hundred seats, and there is a smaller lecture room seating about forty persons. The building contains twenty-two rooms for experimental work, elementary and advanced, in addition to lecture and apparatus rooms, photographic dark rooms, store rooms, offices, a library, and a room for draughting and computing. There is also a tower 4 by 6 feet in cross section, with a height of 54 feet in the clear, which can be used for experiments requiring great vertical extension.

The building is equipped with an exceptionally extensive and complete system of wiring for the purpose of distributing to all points, for experimental use, alternating and direct currents from the city mains, as well as current from the storage batteries in the basement. For the most part the interior is finished with exposed brick walls, painted a light tint, and with exposed floor timbers and pipe work.

LIBRARY AND READING-ROOMS.

THE LIBRARY in Rich Hall contains about sixty-six thousand volumes. The library is open every week-day of the college year from 8 A. M. to 10 P. M. Students are allowed direct access to the shelves. Copies of the library rules may be obtained from the Librarian.

The increase of the Library is provided for from the income of funds amounting to \$85,379. The Alumni Library Endowment of \$35,379. is the aggregate of numerous gifts from alumni and friends of the University. The Hunt Library Endowment of \$30,000 was willed to the University by the late Rev. Albert Sanford Hunt, D. D., of the class of 1851. The Wilcox Library Endowment of \$20,000 was willed to the University by the late Mrs. Stephen Wilcox.

On the first floor of North College is a reading-room, provided with daily and weekly newspapers. Another reading-room, on the second floor of Rich Hall, contains the current issues of the most important magazines and reviews, literary and scientific, American and foreign.

ASTRONOMICAL OBSERVATORY.

THE OBSERVATORY is used for purposes of instruction, and is well equipped therefor. Students in astronomy have frequent opportunities to examine the most interesting celestial objects through the telescope; and members of the class in practical astronomy are instructed in the theory and use of all the instruments in the observatory.

The principal instruments are an equatorial of twelve inches aperture, by Alvan Clark & Sons, provided with a filar micrometer, a polarizing photometer, and spectroscopes, solar and stellar, two of which have very high dispersive power; a transit instrument of three

inches aperture, with collimators of the same aperture, and adapted to use as a zenith telescope; a prime vertical instrument of the same size; sextants; two astronomical clocks; a chronometer; and a chronograph.

LABORATORIES AND APPARATUS.

THE LABORATORY OF EXPERIMENTAL PSYCHOLOGY occupies four rooms in Fisk Hall: a general laboratory and lecture room, a smaller research laboratory, a construction and apparatus room, and a physiological dark-room. These rooms were designed expressly for their present use and contain electrical and other fittings of the most approved sort. The equipment of the laboratory is being increased to meet the demands of research as well as for more adequate class-room demonstration and elementary laboratory exercises. Among the more recent acquisitions may be mentioned: a set of preparations of the brain and spinal cord, a pendulum-tachistoscope, a photographic registering apparatus, a chronograph, a Wheatstone stereoscope, a double projection apparatus designed for experimental purposes as well as for the projection of lantern slides, a fall-tachistoscope for class-room demonstration, and a mirror exposure apparatus of new design for studying the psychology of reading.

THE PHYSICAL LABORATORY occupies the John Bell Scott Memorial, for a description of which see page 79. It is equipped with apparatus for the performance of the experiments usually undertaken in undergraduate courses, and offers also opportunity, in certain lines, for advanced work on the part of graduate students. In the department of electricity, facilities are afforded for instruction in the use of the most important electrical instruments and machines, and for extended tests and investigations, especially in the line of alternating currents.

In addition to the electrical equipment of the Scott Laboratory the dynamo-room in the boiler house contains a 25 horse-power Ball engine and a 17½ kilowatt direct current dynamo, which are used to generate part of the current required for lighting the college buildings, advanced students in the electrical courses being employed as engineers.

THE CHEMICAL LABORATORY occupies seven rooms in Judd Hall. A large working-room on the first floor, with a balance room adjoining, furnishes accommodations for about fifty students, and smaller

rooms afford conveniences for the work of instructors, assistants, and graduate students. Two other rooms on the first floor are used for library, seminary, and office purposes. A large room in the basement serves for the laboratory work of the required course in elementary chemistry.

THE CRYOGENIC LABORATORY furnishes facilities for demonstration and for research at low temperatures. Its main equipment consists of a complete liquid air plant, including a kerosene motor, a Norwalk compressor capable of delivering about 15 cubic feet of air per minute at a pressure of 3,000 pounds, and a liquefier. The capacity of the liquefier is about $2\frac{1}{2}$ liters of liquid air per hour.

THE BIOLOGICAL LABORATORY occupies six rooms in Judd Hall, and is capable of accommodating about thirty students. Four rooms are used for general laboratory purposes, of which one is devoted to miscellaneous laboratory work, one to physiological work, one to coarse dissection, and one to bacteriological work. The laboratory is equipped with all the apparatus necessary for elementary biological work, and is provided with an abundance of material for anatomical and histological study. The general laboratory room contains a type collection illustrating all orders of animals, and students are allowed to use the large museum collection for comparison and direct study.

THE MACHINE SHOP occupies the west room in the boiler house, and is in charge of a skilled mechanic. It is equipped with first-class power lathes, planer, shaper, etc., and affords ample facilities for the construction of new apparatus, for purposes both of demonstration and of investigation; for the repair of apparatus already in use; and, to a limited extent, for the instruction of advanced students who have exceptional mechanical aptitude.

MATHEMATICAL MODELS. This collection, the gift of Ebenezer Hill, Esq., of the class of 1870, comprises a complete set of the models made by Brill of Darmstadt, for illustration in the higher branches of mathematics, as well as in mathematical physics and crystallography. The models are arranged in a series of cases in the mathematical reading-room in Observatory Hall.

GYMNASIUM AND ATHLETIC FIELD.

THE FAYERWEATHER GYMNASIUM is located on the north side of the rear campus, parallel with Wyllys Avenue. Its dimensions are 55 by 120 feet.

The basement contains two bowling alleys, a baseball cage, a large room for shower baths, a room adjacent for rubbing and drying, a large locker room, and toilet rooms. On the first floor is the main hall of the gymnasium, which is well equipped and affords ample room for every variety of gymnastic exercise. The director's office and a room for visiting teams are also on the first floor. The running track is suspended from the roof, above the main floor. On the second floor is a trophy room, used also as a committee room by the various athletic organizations, as well as additional baths and lockers. Special attention has been paid to ventilation, drainage, and lighting, and the building is believed to contain the best features of a modern gymnasium.

The gymnasium is in charge of a competent director, who is a graduate of a medical school. Exercise in the gymnasium is required of the men of the Freshman and Sophomore classes, three hours a week, from Thanksgiving to the end of the winter term. Elective work in the gymnasium is offered to the men of the Junior and Senior classes.

THE ANDRUS FIELD lies in the rear of the main line of college buildings, just south of the gymnasium. A quarter-mile cinder track, with a "straight-away" of 100 yards, encircles one portion of the field, within which ample room is afforded for baseball, football, and field and track athletics. An outdoor board track has recently been built by one of the college fraternities. It is about thirteen laps to the mile, and is banked at the corners. The entire field, covering seven acres, provides sufficient space for class and 'varsity teams to practice at the same time. Its proximity to the college enables the whole student body to keep in touch with the training in all branches of athletics, and affords the teams an opportunity to use the dressing rooms and baths reserved for them in the gymnasium.

At the southern end of the field is a covered grand stand, capable of seating four hundred persons.

MUSEUM.

THE MUSEUM OF NATURAL HISTORY AND ETHNOGRAPHY occupies the upper stories of the Orange Judd Hall of Natural Science. The collections are arranged with special reference to their educational use, and are freely accessible to students.

The nucleus of the departments of zoölogy and botany was formed by the Shurtleff collection, collected by Simeon Shurtleff, M. D., and purchased by the University in 1868.

The Zoölogical Department received in the years between 1872 and 1881 most important accessions in liberal donations and exchanges from the Smithsonian Institution, and in collections made by the curators on the coast of New England, through the facilities afforded by the United States Commissioner of Fish and Fisheries. Expeditions to Bermuda, Florida, and Newfoundland also added large and valuable collections. Valuable collections of insects were presented by Richard L. de Zeng in 1896, and by Mrs. E. K. Hubbard in 1898. This department includes about thirteen thousand species. The vertebrata of North America, the marine invertebrata of New England, and the mollusca in general, are especially well represented.

The Herbarium comprises about five thousand species, representing quite fully the flora of New England, and including also many specimens from foreign localities. The large collection of Joseph Barratt, M. D., came into the possession of the University in 1879.

The Mineralogical Department includes about three hundred and fifty species, and a much larger number of varieties. The Franckfort collection, purchased in 1858, contains many choice specimens, mostly from European localities. The minerals of the interesting region in which Middletown is situated are well represented by collections commenced by the labors of Professor Johnston (1835-1868), and largely increased in later years. Important accessions were obtained in 1899 by collecting trips to Nova Scotia and to Herkimer County, N. Y. The Sheldon collection, recently purchased, includes many beautiful and valuable specimens.

The Geological Department includes collections in lithology, physical geology, and paleontology. The lithological collection received in 1897 a most valuable accession in the gift of a set of the

educational series of rock specimens described in Bulletin No. 150 of the U. S. Geological Survey, presented by the Survey. A suite of Ward's casts of fossils, presented by Orange Judd, M. A., in 1871, serves an excellent purpose in the work of instruction, affording the student a representation of many remarkable forms of ancient life, actual specimens of which are rare or unique. A valuable collection of Tertiary fossils was received in 1887 from the Smithsonian Institution, in exchange for duplicate shells from the Shurtleff collection. The collections in paleontology have been very largely increased since 1893 by the work of the present curator in the vicinity of Middletown, at Valcour Island, Lake Champlain, in western Maryland, in the vicinity of Chattanooga, Tenn., Canon City and Florissant, Col., and Fossil, Wyo., and in Nova Scotia. A choice collection of European fossils, including a number of beautiful specimens from the lithographic limestone of Solenhofen, was received in 1895 from the Museum of Munich, in exchange for American fossils. The private collection of Mr. Loper, purchased for the museum in 1900, is very rich in fossil fishes and plants from the fossiliferous shales of the vicinity of Middletown.

The Ethnographical Department is especially rich in specimens illustrating the life of the Aborigines of North America. Important contributions of pottery, casts of implements, models of dwellings, and other objects have been received from the Smithsonian Institution. A very valuable collection of objects from burial mounds near Chattanooga, Tenn., was deposited in the museum in 1896 by A. R. Crittenden, and has since then been purchased. The private collection of Mr. Loper, purchased in 1903, contains many interesting Indian relics from the vicinity of Middletown. The department also possesses a valuable collection of pottery from the guano beds of Peru, presented by Joseph S. Spinney; an interesting collection of weapons and other objects from the South Sea Islands; a collection of relics from Assuan, Egypt, presented by Clarence S. Wadsworth, B. A.; and valuable collections of objects illustrative of Chinese life and customs, presented by Rev. Marcus L. Taft, D. D., and by Mrs. W. W. Wilcox. The collection of coins numbers over 3,000, exclusive of duplicates. Included in this number is a collection of about 1,800 Chinese coins, some of which are ancient and very rare, presented by Rev. Marcus L. Taft, D. D. Another collection of Chinese coins, numbering over 200, and representing the series of dynasties from the fifth century B. C. to the present time, was received in 1903

from Rev. John Gowdy, B. A., of the Anglo-Chinese College, Foo Chow. The greater part of the ethnographical collection is at present arranged in the lower hall of the museum, with the collections in mineralogy and geology. The coins (with the exception of a small selection placed on exhibition in the museum) are kept in a case in the library, where they can be seen by students and others on special application. Small collections illustrative of classical archæology are kept in the seminary rooms.

The following is an approximate statement of the number of specimens in the various departments of the museum:—

DEPARTMENT OF ZOÖLOGY.

Mammals—skins mounted and unmounted,	-	-	-	200
alcoholic,	-	-	-	50
skulls and skeletons,	-	-	-	110
Birds—skins mounted and unmounted,	-	-	-	1,700
nests and eggs,	-	-	-	600
Reptiles,	-	-	-	350
Amphibians,	-	-	-	150
Fishes,	-	-	-	2,100
Insects—pinned and alcoholic,	-	-	-	6,500
nests, borings, etc.,	-	-	-	50
Crustacea,	-	-	-	1,500
Worms,	-	-	-	1,800
Mollusks—shells,	-	-	-	90,000
alcoholic,	-	-	-	4,000
Echinoderms,	-	-	-	1,000
Cœlentera,	-	-	-	1,700
Sponges and protozoa,	-	-	-	150

DEPARTMENT OF BOTANY.

Plants in herbarium,	-	-	-	10,700
Specimens of wood,	-	-	-	300
Miscellaneous botanical specimens,	-	-	-	1,100

DEPARTMENTS OF MINERALOGY AND GEOLOGY.

Minerals and rocks,	-	-	-	21,000
Fossils—Paleozoic,	-	-	-	11,500
Mesozoic,	-	-	-	3,500
Cenozoic,	-	-	-	3,000

DEPARTMENT OF ETHNOGRAPHY.

Miscellaneous ethnographic specimens,	-	-	-	3,000
Coins,	-	-	-	5,250

The museum is open to the public on Wednesday and Saturday afternoons.

SCHOLARSHIPS.

TUITION SCHOLARSHIPS.

Each year the Trustees place at the disposal of the President, for the benefit of needy and worthy students, a sum of money which is used to pay, in whole or in part, the charge for tuition.

In addition to these free tuition scholarships are the following:—

THE SQUIRE SCHOLARSHIP.

This scholarship was founded by Hon. Watson C. Squire, B. A., of the class of 1859. In accordance with its provisions, the income of \$6,615 is awarded to that member of the Senior class who passes the best examination in Greek, provided that the successful candidate devote the ensuing year to classical study, in residence in the University, or in connection with travel or residence abroad, at his option, subject to the approval of the Committee on Graduate Instruction.

THE LOVELAND SCHOLARSHIPS.

These scholarships were founded by Miss Louisa Loveland. The income of \$2,500 is available, at the discretion of the Faculty, for the use of deserving students who need pecuniary assistance. For these scholarships only such students as intend to devote themselves to the work of the Christian ministry in the Methodist Episcopal Church, can be candidates.

THE JOHN EVANS SCHOLARSHIP.

This scholarship was founded by Mrs. Ann Evans in memory of her husband. The income of \$2,000 is given annually to that member of the Senior or Junior class who is named by the Board of Trustees, or by some authority to whom they may delegate the nomination. For this scholarship only such students as are preparing themselves for the ministry, and are already licentiates in the Methodist Episcopal Church, can be candidates.

THE JONES SCHOLARSHIP.

This scholarship was founded by Frank S. Jones, Esq. The income of \$1,000 is available, at the discretion of the President, to pay, in part, the tuition of a deserving student who needs pecuniary assistance.

THE BILLINGS SCHOLARSHIP.

This scholarship was founded by William Perry Billings, Esq. The income of \$1,700 is available, at the discretion of the President, to pay the tuition of a deserving student who needs pecuniary assistance.

THE SHONK SCHOLARSHIPS.

These scholarships were founded by John J. Shonk, Esq., and Mrs. Ida Shonk in memory of Hon. George W. Shonk, B. A., of the class of 1873. The income of \$5,000 is available, at the discretion of the President, to pay the tuition of deserving students who need pecuniary assistance.

THE STARKS SCHOLARSHIP.

This scholarship was founded by Mrs. Elizabeth B. Starks. The income of \$700 is available, at the discretion of the President, to pay, in part, the tuition of a deserving student who needs pecuniary assistance.

THE PHILIP REYNOLDS SCHOLARSHIP.

This scholarship was founded by Philip Reynolds, Esq. The income of \$1,000 is available, at the discretion of the President, to pay, in part, the tuition of a deserving student who needs pecuniary assistance.



COLLEGE HONORS.

PRIZES.

The Harrington Prize, the gift of Rev. Edmund Mead Mills, D. D., in memory of Professor C. S. Harrington, is awarded for the best essay on some specified subject in the department of history. The subject for the essay of 1905 is: The History of Connecticut during the Revolution (1774-1783). The competition is open to Juniors and Seniors who are taking, or have taken, courses in the department other than Course I.

The Joseph D. Weeks Prize, the gift of Joseph Dame Weeks, M. A., is awarded for the best essay on some specified subject in the department of economics. The subject for the essay of 1905 is: The Organization of Labor; History, Methods, and Results. The essays must be left with the head of the department on or before the third Monday in May (May 15, 1905).

The Peirce Prize, endowed by Rev. Bradford K. Peirce, D. D., is awarded for excellence in natural science. It will be given in 1905 upon a special examination based on Course I. in chemistry. The subject of the examination in 1906 will be geology; in 1907, biology.

The Phi Beta Kappa Prize, the gift of the Connecticut Gamma of Phi Beta Kappa, is awarded for excellence in Latin. It will be given in 1905 upon the topics in Latin required for preliminary honors in classics, and, in addition thereto, the first book of Cicero's Letters to Atticus, and the political history of Rome during the years 68-60 B. C.

The G. Brown Goode Prize, the gift of Mrs. G. Brown Goode, is awarded for the best original investigation in the department of natural history.

No person who has once taken either the Harrington, the Joseph D. Weeks, the Phi Beta Kappa, or the G. Brown Goode prize, may compete for it again.

The Weeks Prize, the gift of Joseph Dame Weeks, M. A., is awarded for excellence in modern philosophy. It will be given in 1905 for the best examination in Courses VII. and VIII. in philosophy, and for additional work to be assigned by the instructor.

The Camp Prize, the gift of the late Samuel T. Camp, Esq., is awarded for excellence in English literature. It will be given in 1905 upon a special examination in Course I. in English literature.

The Johnston Prize, the gift of Rev. David G. Downey, D. D., in memory of Professor John Johnston, is awarded for excellence in electricity. It will be given in 1905 upon a special examination based on Course II. in physics.

The Spinney Prize, the gift of Mrs. Joseph Spinney, is awarded for excellence in Greek. It will be given in 1905 for special work based in part on the first half of Course II. in Greek.

The Rice Prize, the gift of Rev. William Rice, D. D., is awarded for excellence in mathematics. It will be given in 1905 upon a special examination based on Course V. in mathematics.

Students who compete for either the Weeks, the Camp, the Johnston, the Spinney, or the Rice prize must do so during the year in which they regularly pursue the course or courses on which the examination for the prize is based.

The Wise Prize, endowed by Rev. Daniel Wise, D. D., is awarded to that member of the Senior class who excels in ethics. It will be given in 1905 to that member of the Senior class, receiving not less than grade II. in the required work in ethics, who presents the best paper on "The Authority of Conscience."

The Walkley Prize, the gift of Webster R. Walkley, M. A.,—*in memoriam* David Hart Walkley, graduated June, 1878; died September 16, 1878,—is awarded to that member of the Junior class who excels in psychology. It will be given in 1905 for the best examination on the work of the required course in psychology, together with additional work to be assigned by the instructor.

The Sherman Prize, endowed by Rev. David Sherman, D. D., is awarded this year to that member of the Freshman class who excels in Greek. It will be given for special work based in part on the first half of Course I. in Greek. The subject of the examination in 1906 will be mathematics; in 1907, Latin.

The Ayres Prize, endowed by Daniel Ayres, M. D., LL. D., is awarded to that member of the Freshman class who is found upon a special examination, held shortly after the beginning of the college year, to have attained the highest excellence in the studies preparatory to admission to the classical course.

The Rich Prize, endowed by Isaac Rich, Esq., in memory of his wife, is awarded to that member of the Senior class whose oration at Commencement is deemed best in composition and delivery. The orations must not exceed twelve hundred words in length, and must be left with the Professor of English Literature on or before the second Tuesday preceding Commencement (June 20, 1905).

The Olin Prize, endowed by Mrs. Julia M. Olin, is awarded to that member of the Senior class who excels in English composition. The subject for the essay of 1905 is: Rudyard Kipling; an Estimate and a Prediction. The subject for the essay of 1906 is: Robert Louis Stevenson; the Man and the Writer. Essays must be left with the Professor of English Literature on or before the first Monday of the third term (May 1, 1905).

Two prizes are awarded, as a first and second prize respectively, to the two members of the Junior class who present the best orations at the annual Junior Exhibition. In the award of these prizes, both the composition and the delivery of the orations are considered. The orations must be left with the Professor of the English Language on or before the first Saturday of the third term (April 29, 1905).

The Briggs Prize, endowed by James E. Briggs, Esq., is awarded to the student who excels in debate. No person who has once taken the Briggs prize may compete for it again.

The Parker Prize, endowed by Rev. John Parker, for excellence in declamation, is awarded to the best speaker in the Junior and Sophomore classes.

A second prize is awarded, in the same classes, for excellence in declamation; but, in the competition for it, selections of a dramatic character, and from poetry, are excluded.

The Hibbard Prize, the gift of Ralph B. Hibbard, Ph. B., in memory of Professor Ralph Guernsey Hibbard, is awarded to that member of the Freshman class who excels in declamation.

The Taylor Prize, the gift of Rev. George Lansing Taylor, D. D., is awarded to that student who presents the best English poem. The poem must be left with the Professor of English Literature before the Senior examinations.

Competition for the Rich prize, the Junior Exhibition prizes, the Briggs prize, the Parker prize, the second prize for declamation, and the Hibbard prize, is limited to men.

The several committees of award will withhold any prize, if, in their judgment, none of the exercises presented in competition for it possess the requisite merit.

AWARD OF PRIZES, 1903-1904.

The Harrington Prize, to BENJAMIN PETTENGILL ADAMS, 1907.

Committee of Award:—Jonathan Trumbull, Librarian of the Otis Library, Norwich, and Vice-President of the Connecticut Historical Society.

The Peirce Prize, to FRANK PEARL FLETCHER, 1904.

The Phi Beta Kappa Prize, to FRANK CHESTER BECKER, 1905.

The G. Brown Goode Prize, to JOHN FERDINAND SCHNEIDER, 1904, and JOHN BENTLEY, JR., 1904.

The Weeks Prize, to OLIN INGRAHAM, 1904.

The Camp Prize, to GEORGE WILEY SHERBURN, 1906.

The Johnston Prize, to HARRY LESLIE AGARD, 1904.

The Spinney Prize, to FRANK EGGLESTON ROBBINS, 1906.

Committee of Award:—Professor Clarence Powers Bill, Ph. D., of Western Reserve University.

The Rice Prize, to WILLIAM GORDON MURPHY, JR., 1906.

The Wise Prize, to OLIN INGRAHAM, 1904.

The Walkley Prize, to GEORGE GREENWOOD REYNOLDS, 2d, 1905.

The Sherman Prize, to RAY ROOD ALLEN, 1907.

The Rich Prize, to HOWARD FIFIELD LEGG, 1904.

Committee of Award:—Professor Clarence Abiathar Waldo, M. A., of Purdue University; Professor Karl Pomeroy Harrington, M. A., of the University of Maine; and Reverend Frank Bourne Upham, D. D., of Bridgeport.

The Olin Prize, to KENNETH MACKERNES GOODE, 1904.

Committee of Award:—Reverend George Willis Cooke, of Wakefield, Mass.

The First Junior Exhibition Prize, to DANIEL ROY FREEMAN, 1905.

Committee of Award:—William Walter Wilcox, B. A., of Middletown; Reverend Edmund Campion Acheson, M. A., of Middletown; and Alfred Marshall Hitchcock, M. A., of the Hartford High School.

The Second Junior Exhibition Prize, to GEORGE EDMUNDS TOLMAN, 1905.

Committee of Award:—Same as for the First Junior Exhibition Prize.

The Briggs Prize, to CHARLES WOODARD ATWATER, 1906.

Committee of Award:—Honorable Frank David Haines, B. A., of Middletown; Professor Samuel Rakestraw Colladay, S. T. B., of the Berkeley Divinity School, Middletown; and Reverend Oliver Henry Raftery, M. A., of Portland.

The Parker Prize, to WILLIAM MORTIMER HEISLER, 1905.

Committee of Award:—Honorable Albert Randolph Crittenden, of Middletown; Reverend Francis Theodore Brown, B. A., of Middletown; and Honorable Daniel Joseph Donahoe, of Middletown.

The Second Prize in Elocution, to DANIEL ROY FREEMAN, 1905, and CHARLES MAHBETT TRAVIS, 1906.

Committee of Award:—Same as for the Parker Prize.

The Hibbard Prize, to RAYMOND LALOR FORMAN, 1907.

Committee of Award:—Same as for the Parker Prize.

The Ayres Prize, for the current year has been divided between RAYMOND SCOFIELD CURTICE, 1908, prepared at the New Rochelle High School, New Rochelle, N. Y., and at Centenary Collegiate Institute, Hackettstown, N. J., and PHILIP LOMBARD GIVEN, 1908, prepared at Newark Academy, Newark, N. J., and at Blair Presbyterian Academy, Blairstown, N. J.

APPOINTMENTS FOR JUNIOR EXHIBITION AND COMMENCEMENT.

The Junior Exhibition is held on the third Thursday evening of the spring term (May 11, 1905). The speakers are selected from the men of the Junior class, in part according to their grade in composition subsequent to the Freshman year, and in part by means of a special contest in declamation. The speakers at Commencement are selected from the men of the Senior class according to their grade in the rhetorical exercises of the Junior and the Senior year, and in the declamations of the Sophomore year. The number of speakers at each of these public exercises is limited to eight.

The speakers last year were:—

JUNIOR EXHIBITION.

DANIEL ROY FREEMAN, GEORGE AVERY NEED,
STEWART FREEMAN HANCOCK, GEORGE BRADFORD NEUMANN,
WILLIAM MORTIMER HEISLER, GEORGE GREENWOOD REYNOLDS, 2d,
HENRY ALFRED HOLMES, GEORGE EDMUNDS TOLMAN.

COMMENCEMENT.

BENJAMIN WRIGHT GUERNSEY, RALPH WELLES KEELER,
MERRITT JUDSON HOPKINS, HOWARD FIFIELD LEGG,
OLIN INGRAHAM, PAUL NIXON,
HAROLD EDMUND WILSON.

HONORS IN SCHOLARSHIP.

I. HONORS IN GENERAL SCHOLARSHIP.—Two grades of honor, designated respectively as honors and high honors, are conferred at graduation, based upon the general scholarship of the student throughout his whole course.

An honor in general scholarship is awarded to a student who has received a grade not below third on an aggregate of not less than 62 hours' work, as reckoned in the record of standings, has received first grade on a number of hours' work not less than the part of the 62 hours' work on which he has received third grade, and has not fallen below fourth grade in any study of the course.

A high honor in general scholarship is awarded to a student who has received a grade not below second on an aggregate of not less than 62 hours' work, has received first grade on an aggregate of not less than 50 hours' work, and has not fallen below third grade in any study of the course.

II. PRELIMINARY HONORS.—Preliminary honors are awarded in the departments of classics and mathematics at the end of the Sophomore or Junior year, and no student can receive special honors at graduation in Greek, Latin, or mathematics, who has not previously received the corresponding preliminary honors. Notice of candidacy for preliminary honors must be given to the senior officer of the department, and to the Secretary of the Faculty, as early as the first Monday of the third term of the year in which the candidate intends to present himself for the special examination (May 1, 1905). The case of each candidate is decided by the Faculty. The special regulations concerning the award of preliminary honors are as follows:—

Classics.—1. The candidate must not fall below third grade, and must maintain an average standing of second grade, in the following courses:—I., II., and III. Greek, and I., II., III., and IV. Latin.

2. He must also pass with distinction a special examination, held near the end of the academic year, and designed to test (*a*) his ability to translate Greek and Latin into English at sight, and (*b*) his knowledge of Greek and Latin grammar, and of Greek and Roman antiquities, mythology, and political and literary history.

Mathematics.—1. The candidate must not fall below third grade, and must maintain an average standing of second grade in the required course in mathematics, and in such elective courses, amounting to not less than five hours a week, as may be approved by the head of the department. Courses IV. and V. are recommended.

2. He must pass with distinction a special examination, held near the end of the academic year, which may cover the entire field of his mathematical knowledge.

III. HONORS IN SPECIAL DEPARTMENTS AT GRADUATION.—Two grades of special honor, designated respectively as honors and high honors, are awarded at graduation in each of the following departments:—

Latin; Greek; German; Romance Languages; English; History; Economics and Social Science; Philosophy; Mathematics; Physics; Chemistry; Geology; Biology.

The conditions upon which special honors in these departments are awarded are as follows:—

(1) The candidate must apply to the officer in charge of the department in which he desires to take honors, and to the Secretary of the Faculty, not later than the first Monday of the third term in the Junior year (May 1, 1905).

(2) He must pass at the regular or special examinations in such studies of the college course as are prescribed for honors in the several departments in the schedule given below; and in such studies he must not fall below third grade, and must maintain an average standing of second grade after the beginning of the Sophomore year, or must receive first grade in all of the prescribed studies which he takes after the beginning of the Junior year.

(3) In addition to the studies regularly prescribed in the schedule below, the candidate must pursue such a course of collateral reading or investigation as is prescribed by the officer in charge of the department, with the approval of a committee of the Faculty. The evidence of his proficiency in this collateral course is given by an examination, oral or written, by a thesis or essay, by the exhibition of scientific specimens, preparations, or processes, or by two or more of these methods combined, as may be prescribed by the officer of the department, with the approval of a committee of the Faculty. The case of each candidate is decided by the Faculty.

(4) In addition to other requirements, every candidate for special honors is required to pass a *general examination* covering the entire field of his knowledge in the department in which the honor is given. This examination is oral, and is conducted in the presence of a committee of the Faculty.

(5) No student is awarded special honors who fails to pass in any study of the last two years of the course.

(6) No examination for special honors is given, and no thesis of other work in preparation for special honors is received, after the second Saturday preceding Commencement (June 17, 1905).

The conditions upon which high special honors are awarded are the same as for special honors, with the addition of the following requirements:—

The candidate must receive first grade in all of the prescribed studies which he takes after the beginning of the Sophomore year, and his examinations and other tests must show an exceptionally clear and comprehensive understanding of the studies of the department, and give promise of capacity for independent work.

The following schedule gives the studies required of candidates for special honors in the several departments:—

Latin.—1. So many of the courses in Latin as will amount in the aggregate to not less than twenty hours a week.

2. Courses I., II., and III. in Greek.

[Candidates for special honors in Latin at graduation are requested to announce their candidacy as early as the beginning of the Junior year.]

Greek.—1. Courses I.–VIII. in Greek, and not less than three hours in courses approved by the Committee on Special Honors.

2. Courses I.–IV. in Latin.

German.—1. Courses I.–V., VIII., IX., and X. in German.

2. Courses I. and II. in French.

3. Course I. in English literature, or Courses III. and IV. in English language.

Romance Languages.—1. Courses I.–VIII. in Romance languages.

2. Courses I. and II. in German.

English.—1. The required courses in English, including composition.

2. One of the following groups of elective courses:—

(a.) Four courses in English literature, and four courses in English language.

(b.) Four courses in English language, one course in English literature, two courses in German.

(c.) Four courses in English literature, one course in English language, four courses in French or German or both.

(d.) Four courses in English literature, four courses in French or German, the course in English history.

(e.) Five courses in English language, five courses in French or German.

History.—1. All the courses in history.

2. The required course, and one elective course, in economics and social science.

Economics and Social Science.—1. All the courses in economics and social science.

2. Course I., and either Course II. or Course III. in history.

Philosophy.—1. All the courses in philosophy.

2. The course in ethics.

3. The course in theism (for candidates in general philosophy), or Course IV. in biology (for candidates in psychology).

Mathematics.—1. The required course in mathematics.

2. Elective courses in mathematics and astronomy, amounting in the aggregate to not less than fifteen hours a week.

3. Course I. in physics.

[Prospective candidates for special honors in mathematics at graduation are advised to take Course V. in mathematics in the Sophomore year.]

Physics.—1. Courses I. and II. in physics.

2. Two years of practical physics (in at least one of which there shall be three exercises a week).

3. Not less than the equivalent of six hours per week for a year, chosen from the following courses:—V., VI., VII., VIII., IX., XII., XIII. Physics, and XI. Mathematics.

4. Course I., and either Course III. or Course IV. in chemistry.

5. Course V. in mathematics.

Chemistry.—1. Courses I., II., either III. or IV., VI., VII., and XI. in chemistry (three exercises a week being required in Courses III. and IV.).

2. Course I. in physics, and one year of practical physics; or Course VIII. in chemistry, and Courses IV. and V. in biology.

Geology.—1. Courses I.–VI. in geology.

2. The course in descriptive astronomy, or the course in general astronomy.

3. Courses II. and III. in biology.

4. Not less than two of the following courses:—V., VI., and VII. Biology, either III. or IV. Chemistry, VI. Chemistry, and IX. Physics.

Biology.—1. Courses I.–IV. in biology.

2. Two years of practical biology (in at least one of which there shall be three exercises a week).

3. Courses I. and II. in geology.

4. Either Course III. or Course IV. in chemistry or Course IV. in geology.

[Candidates for special honors in biology are recommended to take at least one summer course in a marine laboratory.]

In all cases in which the foregoing schedule allows option between two or more courses or groups of courses, the student's selection is subject to the approval of the head of the department in which he desires to take honors.

In special cases a candidate for honors may be allowed to substitute other courses for those named in the foregoing schedule, by vote of the Faculty, on recommendation of the head of the department.

An honor of any of the kinds and grades mentioned may be conferred on a student sufficiently meritorious, by vote of the Faculty, even though his record of standing does not completely fulfill the requirements stated above.

The names of those students who take preliminary honors are announced at the public service held in Memorial Chapel on the Monday preceding Commencement (June 26, 1905).

The names of students who take honors at graduation, whether general or special, are printed on the Commencement program.

AWARD OF HONORS, 1903-1904.

HONORS IN GENERAL SCHOLARSHIP.

HIGH HONORS.

ASA RUSSELL GIFFORD,

PAUL NIXON.

HONORS.

HARRY LESLIE AGARD,

CLIFFORD WATSON HALL,

JOHN BENTLEY, JR.,

SAMUEL FOSS HOLMES,

CHARLES GUY BROWN,

OLIN INGRAHAM,

ROLAND JAY BUNTEN,

EDWIN CHESTER JONES,

FRANK NUGENT FREEMAN,

RALPH WELLES KEELER,

ROBERT WALLACE GILLISPIE,

HOWARD FIFIELD LEGG,

KENNETH MACKERNESS GOODE,

GEORGE ROCKER.

ANNIE FISHER,

MARY ELIZABETH SMITH,

MARGUERITE VAN BENSCHOTEN.

HONORS IN SPECIAL DEPARTMENTS.

HONORS.

Latin.

PAUL NIXON. A Study of Pliny's Letters.

English.

HENRY ADELBERT WHITE. The Life and Writings of Emerson.
Thesis: "Emerson and New England Transcendentalism."

Mathematics.

CHARLES GUY BROWN. Studies in Theory of Potentials.

Biology.

JOHN FERDINAND SCHNEIDER. Bacteriology. Thesis: "Water Bacteria from the Vicinity of Middletown."

PRELIMINARY HONORS.

Classics.

FRANK EGGLESTON ROBBINS, GEORGE WILEY SHERBURN,
FREDERICK WARREN WRIGHT.

MARGARET ELIZABETH DONAHOE.

Mathematics.

Juniors.

HANFORD CURTIS ADAMS. RUTH DEAN.

Sophomores.

WILLIAM GORDON MURPHY, JR., NEWTON MANLEY PERRINS.



DEGREES.

The following degrees are conferred by the University, in course:—

BACHELOR OF ARTS.—This degree is conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Classical Course.

BACHELOR OF PHILOSOPHY.—This degree is conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Latin-Scientific Course.

BACHELOR OF SCIENCE.—This degree is conferred on those who complete in a satisfactory manner all the required studies, and the prescribed quota of elective studies, in the Scientific Course.

The baccalaureate degree is awarded *summa cum laude* to a student who takes high honors both in general scholarship and in one or more departments; *magna cum laude*, to a student who takes a high honor either in general scholarship or in one or more departments; *cum laude*, to a student who takes an honor either in general scholarship or in one or more departments.

MASTER OF ARTS AND MASTER OF SCIENCE.—The degrees of Master of Arts and Master of Science are conferred in accordance with the following regulations:—

1. The degree of Master of Arts is conferred upon Bachelors of Arts of Wesleyan University, of at least one year's standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued in residence for a period of not less than one year. This course of study is under the full direction of a Committee of the Faculty on Graduate Instruction, composed of three permanent members with the addition of the instructor in charge of each department in which the candidate pursues work. Evidence of the candidate's proficiency in the approved studies is given by an examination, oral or written, by a thesis or an essay, by the exhibition of scientific

specimens, preparations, or processes, or by two or more of these methods combined, as the committee may prescribe. All such tests of proficiency are under the direction of the committee, and they report to the Faculty proper candidates for the degree.

2. In the case of Bachelors of Arts of other colleges whose course of study is accepted as sufficient by the Committee on Graduate Instruction, or who pass such additional examinations as the committee prescribes, the degree of Master of Arts is conferred on the conditions prescribed in the case of Bachelors of Arts of Wesleyan University pursuing a course of study in residence.

3. The degree of Master of Arts is also conferred upon Bachelors of Arts of Wesleyan University, of at least three years' standing, at the satisfactory conclusion of a course of advanced, non-professional study, pursued *in absentia*, and equivalent in amount to that prescribed in the case of resident graduate students; and in all other particulars the same regulations hold in the case of non-resident as in the case of resident students. The degree is also conferred upon Bachelors of Arts of Wesleyan University, of two years' standing, at the satisfactory conclusion of a course of study pursued *in absentia*, on the conditions above specified, provided that the candidate has spent the two years in resident study in a non-professional department of some other university.

4. The degree of Master of Science is conferred upon Bachelors of Philosophy and Bachelors of Science, whether of this or of other colleges, under the same conditions which govern in the case of the degree of Master of Arts.

5. Bachelors of Philosophy and Bachelors of Science, whether of this or of other colleges, who pass such examinations in Greek and Latin, and in other literary studies, as the Committee on Graduate Instruction prescribes, are admitted to the degree of Master of Arts on the conditions prescribed in the case of Bachelors of Arts.

6. A fee of ten dollars is required from each graduate student upon promotion to the Master's degree.

Communications from prospective graduate students regarding the Master's degree should be addressed, in the first instance, to Professor E. T. Merrill, the secretary of the Committee on Graduate Instruction.

DEGREES CONFERRED, JUNE, 1904.

DEGREES IN COURSE.

The Degree of Bachelor of Arts was conferred on

HARRY LESLIE AGARD,	EDWIN CHESTER JONES,
RAYMOND DINSMORE ALLEN,	RALPH WELLES KEELER,
WILLIAM HARVEY BATH,	HOWARD FIFIELD LEGG,
CHARLES GUY BROWN,	PAUL NIXON,
ROLAND JAY BUNTEN,	HOWARD STIMSON PACKARD,
MYRON CADY CRAMER,	SAMUEL TALCOTT REYNOLDS,
FRANK PEARL FLETCHER,	HOWARD MACMILLAN RICHARD,
FRANK NUGENT FREEMAN,	MOSES STUART ROGERS,
CHARLES HENRY GARRISON,	ERNEST WALTER SCHMIDT,
JOHN MCGREGOR GIBB, JR.,	JOHN FERDINAND SCHNEIDER,
ASA RUSSELL GIFFORD,	TRACY SMITH,
BENJAMIN WRIGHT GUERNSEY,	HENRY ADELBERT WHITE,
CLIFFORD WATSON HALL,	DAVID DAY WHITNEY,
CLARENCE RUFUS HICKOK,	HAROLD EDMUND WILSON,
ROY SMITH HURD,	WATSON WOODRUFF.

ETHEL GERTRUDE REYNOLDS, MARY ELIZABETH SMITH,
MARGUERITE VAN BENSCHOTEN.

The Degree of Bachelor of Philosophy was conferred on

BENJAMIN COE CROWELL,	EDGAR MACNAUGHTEN,
LOUIS DE VOURSNEY DAY,	HAROLD BRADFORD RAYMOND,
ROBERT WALLACE GILLISPIE,	STETSON KILBOURNE RYAN,
SAMUEL FOSS HOLMES,	HENRY GUSTAV SHAILER,
OLIN INGRAHAM,	CHARLES AKIN STONE,
PATRICK JOSEPH McDONNELL, JR.,	WARREN SUTCLIFFE WALLACE,
JAMES ELIJAH WILSON.	

HELEN VERONICA BRANSFIELD, AMY ELIZA DAVIS,
HELEN LOUISE GILBERT.

The Degree of Bachelor of Science was conferred on

OWEN CHAUNCEY BECKER,	MERRITT JUDSON HOPKINS,
JOHN BENTLEY, JR.,	WALTER PALMER KEELER,
GERALD BIRCH DEMAREST,	WILBUR CARLTON KNOWLES,
RALPH JOHN FOLSOME,	THEODORE MANLEY MELDEN,
KENNETH MACKERNES GOODE,	GEORGE MERRIAM NEWELL,
ARTHUR SHELDON GRANT,	GEORGE ROCKER,
WILBOR BUTLER HARLOW,	EDWIN HENRY SCHUTT.

ANNIE FISHER.

The Degree of Master of Arts on examination was conferred on

ARLON TAYLOR ADAMS, B. A., 1903. Subject: English. Thesis:
"The so-called Transcendentalist Movement in New England,
and Emerson's Relation to It."

The Degree of Master of Science on examination was conferred on

CHARLES GOURLAY GOODRICH, PH. B., 1893. Subject: Modern
Languages. Thesis: "The Origin and Development of the
French Drama."

CLARENCE ALBERT PIERCE, B. S., 1902. Subject: Physics. Thesis:
"Electric Currents Induced in a Conducting Medium by a
Rotating Magnet, with a Method of Plotting Condenser-Curves."

MINNIE CLARA RIGBY, PH. B., 1903. Subject: Modern Lan-
guages. Theses: (1) "The Saga of Tristan and Isolde in Ger-
many." (2) "French Society in the Seventeenth Century."

ALLAN WINTER ROWE, B. S. (Mass. Inst. of Tech.), 1901. Sub-
ject: Chemistry. Thesis: "Some Efficiency Tests of the Liquid
Air Plant at Wesleyan University."

HONORARY DEGREES.**The Degree of Doctor of Divinity was conferred on**

JOHN HELPS BICKFORD, of Wilkes-Barre, Pa.

BENJAMIN GILL, 1870, Professor of Latin and Dean of the School
of Language and Literature, State College, Pa.

CHARLES WESLEY MILLARD, 1867, of New York City.

The Degree of Doctor of Laws was conferred on

ABRAM WINEGARDNER HARRIS, 1880, President of the Jacob Tome
Institute, Port Deposit, Md.

PUBLICATIONS.

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ALUMNI RECORD.—Through the liberality of Orange Judd, M. A., a Biographical Record of the Alumni of the University was published in 1869. A third edition of this Record, revised and corrected, was issued in June, 1883. This edition contains not only the record of alumni, revised and corrected to the date of publication, but also a list of all former students not graduates, with their residences, and such other information with reference to them as the most thorough search could obtain. It also includes a bibliographical record, showing all the more important literary and scientific work done by alumni and members of the Faculty. Copies of this edition may be had on application to the librarian, W. J. James. The price of the Record, postage prepaid, is one dollar.

A sixth edition of the Supplement to the Alumni Record, was published in December, 1903. It contains an alphabetical list of the living graduates, with their honorary and professional degrees, their occupations, their addresses, and their geographical distribution; also a list of honorary alumni, with their addresses, if living, or date of death, if deceased. This edition also contains as full information as can be obtained concerning the non-graduates.

Information in regard to changes of address of alumni or non-graduates, or in regard to any other facts suitable for future editions of the Record, is earnestly solicited. All who can furnish such information are requested to communicate with Professor F. W. Nicolson, Secretary of the Faculty.

WESLEY BICENTENNIAL.—A memorial volume was issued early in 1904 containing a full record of the celebration of the bicentennial anniversary of the birth of John Wesley by Wesleyan University at the Commencement of 1903. The book was printed by Theo. L. DeVinne & Co., of New York. It contains over 250 pages, and includes a general account of the celebration, the full text of all the addresses delivered, and an appendix giving the names of all committees, of the invited guests who were present, of all recipients of

degrees, honorary and in course, and of nearly six hundred alumni who attended the celebration. It is illustrated also with several pictures of the college buildings and grounds, with two excellent portraits of Mr. Wesley, and with portraits of the principal speakers. Applications for the memorial volume should be sent to the Librarian of Wesleyan University. Price, \$1.50, postage prepaid.

BULLETIN.—The *Bulletin* was first issued in 1888, and has since been published twice a year (usually in May and November), under the direction of a committee of the Faculty. It contains accounts of trustee and alumni meetings, lists of recent gifts, statements of the most urgent needs of the University, changes in the Faculty and courses of study, department notes, and various other matters of interest to the alumni and friends of the institution. It is sent to the trustees and alumni, and may be obtained by other friends of the University upon application to the Secretary of the Faculty.

NECROLOGY.—A list of deceased graduates of the University is published annually in the Spring *Bulletin*. All persons who can supply information for future lists are urgently requested to communicate the same to Professor F. W. Nicolson, Secretary of the Faculty.

EMPLOYMENT BUREAU.

An employment bureau is maintained in the office of the Secretary of the Faculty, for the purpose of securing positions as teachers for graduates of the college, and to provide opportunities for undergraduates to earn money towards paying their college expenses, either by work in Middletown during term time, or by work in Middletown or elsewhere during the summer vacation. Those who wish to avail themselves of the opportunity thus offered are invited to register; and the alumni and friends of the college are urgently requested to inform the Secretary of any vacancy coming to their notice which might be filled by a Wesleyan student or graduate. No fees are charged.

CALENDAR.

1904.

Sept. 29, Thursday—First term began.

Nov. 23-27, Thanksgiving recess.

Dec. 7, Wednesday afternoon—Dedication of the John Bell Scott Memorial.

Dec. 23, Friday—First term will close.

CHRISTMAS RECESS.

1905.

Jan. 4, Wednesday—Second term will begin.

Jan. 26, Thursday—Day of prayer for colleges—a holiday.

Feb. 8-21, Mid-year examinations.

Feb. 22, Wednesday—Washington's Birthday—a holiday.

April 19, Wednesday—Second term will close.

SPRING RECESS.

April 25, Tuesday—Third term will begin.

April 29, Saturday—Last day for presenting Junior Exhibition essays.

May 1, Monday—Last day for presenting Olin Prize essays.

May 1, Monday—Last day for presenting applications for preliminary and special honors.

May 1, Monday—Last day for presenting applications for special spring examinations.

May 11, Thursday—Junior Exhibition.

May 15, Monday—Last day for presenting Joseph D. Weeks Prize essays.

May 30, Tuesday—Memorial Day—a holiday.

June 1, Thursday—Prize Debate.

June 5, Monday—Senior examinations will begin.

June 12, Monday—Annual examinations will begin.

June 17, Saturday—Last day for presenting special honor theses, and for special honor examinations.

June 17, Saturday—Last day for presenting Master's theses, and for examinations for the Master's degree.

1905.

- June 20, Tuesday—Last day for presenting Rich Prize essays.
June 23, Friday—Prize declamations.
June 25, Sunday morning—Baccalaureate sermon.
June 25, Sunday evening—University sermon.
June 26, Monday morning—Announcement of award of prizes and of preliminary honors.
June 26, Monday afternoon—Class Day.
June 26, Monday evening—Meeting of the Board of Trustees.
June 27, Tuesday morning—Business meeting of the Phi Beta Kappa Society.
June 27, Tuesday morning—Business meeting of the Alumni Association.
June 27, Tuesday afternoon—Reunion of classes of 1855, '80, '90, '95, '98, 1902.
June 27, Tuesday afternoon—Social receptions by the college fraternities.
June 28, Wednesday—COMMENCEMENT.
June 29, Thursday—Examination of candidates for admission will begin.

VACATION OF THIRTEEN WEEKS.

- Sept. 26, Tuesday—Special examinations for students deficient at the annual examinations.
Sept. 27, Wednesday—Examination of candidates for admission will begin.
Sept. 28, Thursday—First term will begin.

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WESLEYAN UNIVERSITY.

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JANUARY						MAY						SEPTEMBER						JANUARY								
S	1	8	15	22	29	S	-	7	14	21	28	S	-	3	10	17	24	S	-	7	14	21	28			
M	2	9	16	23	30	M	1	8	15	22	29	M	1	8	15	22	29	M	1	8	15	22	29			
T	3	10	17	24	31	T	2	9	16	23	30	T	2	9	16	23	30	T	2	9	16	23	30			
W	4	11	18	25	X	W	3	10	17	24	31	W	3	10	17	24	31	W	3	10	17	24	31			
T	5	12	19	26	X	T	4	11	18	25	X	T	4	11	18	25	X	T	4	11	18	25	X			
F	6	13	20	27	X	F	5	12	19	26	X	F	5	12	19	26	X	F	5	12	19	26	X			
S	7	14	21	28	X	S	6	13	20	27	X	S	6	13	20	27	X	S	6	13	20	27	X			
FEBRUARY						JUNE						OCTOBER						FEBRUARY								
S	-	5	12	19	26	S	-	4	11	18	25	S	1	8	15	22	29	S	-	4	11	18	25			
M	-	6	13	20	27	M	-	5	12	19	26	M	2	9	16	23	30	M	-	5	12	19	26			
T	-	7	14	21	28	T	-	6	13	20	27	T	3	10	17	24	31	T	-	6	13	20	27			
W	1	8	15	22	X	W	-	7	14	21	28	W	4	11	18	25	X	W	-	7	14	21	28			
T	2	9	16	23	X	T	1	8	15	22	29	T	5	12	19	26	X	T	1	8	15	22	29			
F	3	10	17	24	X	F	2	9	16	23	30	F	6	13	20	27	X	F	2	9	16	23	30			
S	4	11	18	25	X	S	3	10	17	24	X	S	7	14	21	28	X	S	3	10	17	24	X			
MARCH						JULY						NOVEMBER						MARCH								
S	-	5	12	19	26	S	-	2	9	16	23	30	S	-	5	12	19	26	S	-	4	11	18	25		
M	-	6	13	20	27	M	-	3	10	17	24	31	M	-	6	13	20	27	M	-	5	12	19	26		
T	-	7	14	21	28	T	-	4	11	18	25	T	-	7	14	21	28	T	-	6	13	20	27			
W	1	8	15	22	29	W	-	5	12	19	26	W	1	8	15	22	29	W	-	7	14	21	28			
T	2	9	16	23	30	T	-	6	13	20	27	T	2	9	16	23	30	T	1	8	15	22	29			
F	3	10	17	24	31	F	-	7	14	21	28	F	3	10	17	24	31	F	2	9	16	23	30			
S	4	11	18	25	X	S	1	8	15	22	29	S	4	11	18	25	X	S	3	10	17	24	31			
APRIL						AUGUST						DECEMBER						APRIL								
S	-	2	9	16	23	30	S	-	6	13	20	27	S	-	3	10	17	24	31	S	1	8	15	22	29	
M	-	3	10	17	24	X	M	-	7	14	21	28	M	-	4	11	18	25	X	M	-	2	9	16	23	30
T	-	4	11	18	25	X	T	-	8	15	22	29	T	-	5	12	19	26	X	T	-	3	10	17	24	X
W	-	5	12	19	26	X	W	-	9	16	23	30	W	-	6	13	20	27	X	W	-	4	11	18	25	X
T	-	6	13	20	27	X	T	-	10	17	24	31	T	-	7	14	21	28	X	T	-	5	12	19	26	X
F	-	7	14	21	28	X	F	-	11	18	25	X	F	-	8	15	22	29	X	F	-	6	13	20	27	X
S	1	8	15	22	29	X	S	1	8	15	22	29	S	2	9	16	23	30	X	S	7	14	21	28	X	

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